ELAN Technical Manual
Converter
Version 2.0

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ELAN Technical Manual Converter
Software License Agreement

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ELAN Technical Manual Converter(TM) Version 2+
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Chapter 1

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Chapter 2

Introduction

2 Introduction

2.1 TMC Features

TMC Features

ELAN Technical Manual Converter (TMC) is a document management application that allows you to organize, clean, and convert large volumes of scanned documents, images of different sizes, color and depth, into interactive, searchable, highly marked-up PDF files.
TMC provides several capabilities, including:

- Creation of index data after documents are scanned
- Collection of record-specific information associated with documents and images
- Creation of bookmarks for PDF documents

Several options can be set prior to the conversion of image files to PDF, including:

- Image or Image + Text format
- Nonlinearized or linearized output for Web applications

Information indexed with TMC can be searched using ELAN's Web Search™ software, providing easy document access via intranet or Internet.

Additional information about TMC can be found at http://www.elan-gmk.com

2.2 System Requirements

The minimum system requirements for running TMC 2.0 are:

- Pentium III processor 500 MHz
- Windows NT 4/2000/XP
- 256 MB RAM
- 500 MB free hard drive space
- 1024 x 768 pixels screen resolution

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Chapter 3

Installation and Removal

3 Installation and Removal

3.1 Installing TMC

To install TMC, do the following:

- Exit all Windows programs.
- Insert the TMC CD into your CD-ROM drive.
- When the TMC Introduction window appears, click Install ELAN Technical Manual Converter to launch the installation program.

Note:
If the Windows autostart function has been turned off, the Introduction window will not appear. In this case, go to the Windows Start menu and select Run. Type the following in the edit box: <drive>:\setup.exe, where drive is the letter of your CD-ROM drive. You can also launch setup.exe from Windows Explorer.

When the installation program starts, you will see an introduction screen.

- Click Next.
- Read the Software License Agreement carefully.
- Click Yes if you accept all of the terms of this agreement. Otherwise click No.

Note:
You must accept the agreement to install TMC.

- On the third page, specify a location on your hard drive for TMC.
- The default location is: C:\Program Files\ELAN\ElanTmc. If this is acceptable, click Next.
- If you want to install TMC in a different drive or directory, click Browse and specify the desired location. Then click Next.
- Specify the program folder name. By default, it is named "Elantmc". If this is acceptable, click Next.
- If you would like to change this name, edit the folder name in the edit box and click Next.
- The installation wizard informs you that the files are ready to be installed on your hard drive. If you are sure that the previous options were correctly set up, click Next.
- When the installation is complete, the finish screen will appear. Click Finish.

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3.2 Installing the Keylock

After installing TMC, you must install the keylock driver and keylock if your software was shipped with keylock (dongle) protection.

To install the keylock driver and keylock:

1. Log on to the PC as the Administrator.
2. Exit all windows programs.
3. Insert the tmc CD-ROM into your CD drive.
4. Open Windows Explorer.
5. Locate and double-click the file \keylock\install\hdd32.exe.
6. The InstallShield Self-Extracting EXE dialog box appears. Click Yes.
7. The Warning Dialog box appears. Click Yes.
8. The HASP Device Driver dialog box appears. Click Next.
9. Click the Typical button.
10. Click Next.
11. The Information dialog box appears. Click OK.
12. The Setup Complete dialog box appears. Click Finish.
13. Install the Keylock before running tmc.

3.3 Removing TMC

To remove TMC from your computer, If you are running TMC, exit the program.

- From the Windows task bar, click Start.
- From the Settings menu, select Control Panel.
- Double-click Add/Remove Programs.
- From the program list, select Elan Technical Manual Converter.
- Click Add/Remove.
- In the Uninstall dialog box, click Next.
- Click Finish and wait for TMC to be removed from your computer.

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Chapter 4

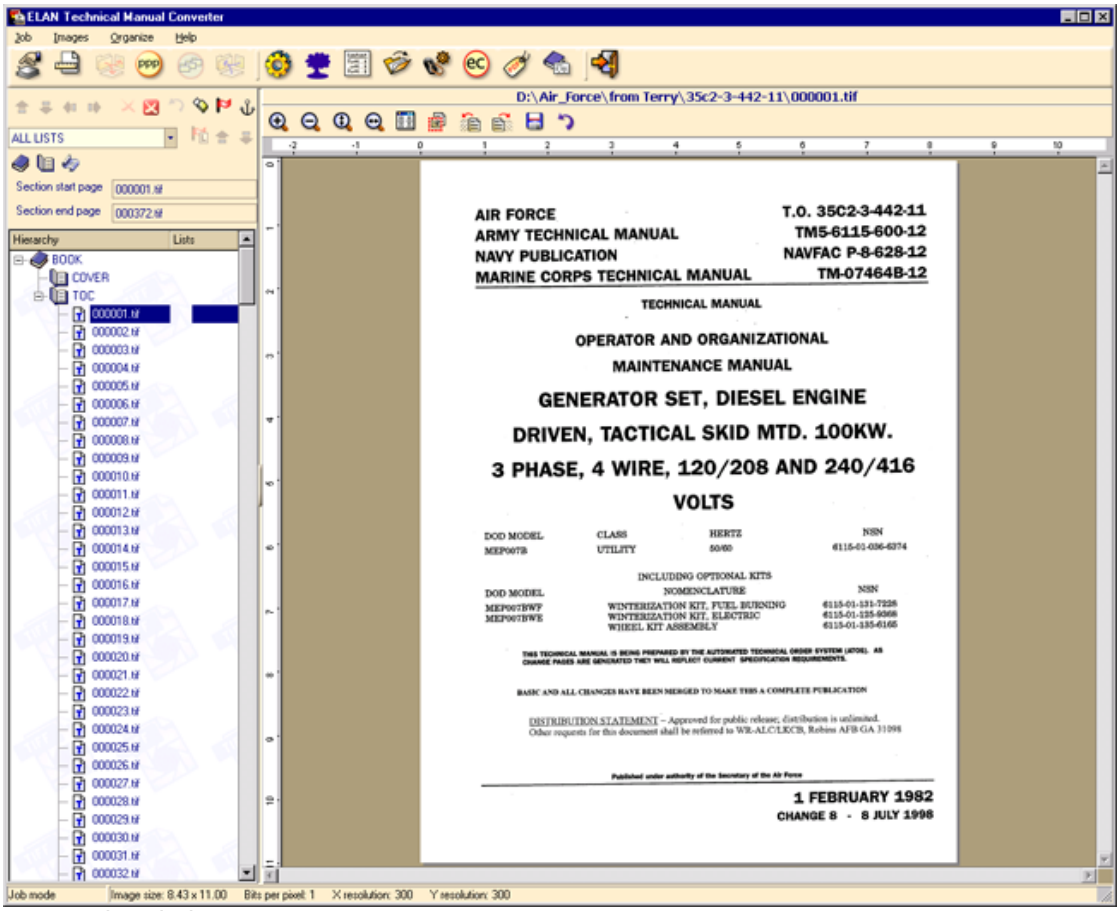
User Environment

4 User Environment

4.1 Main Window

4.1.1 Main Window

The Main window is the application's primary workspace.



TMC Main Window

The Main window has the following major parts:

- Menu Bar
- Toolbar
- Tree
- Image Viewer
- PDF Viewer
- Thumbnail Pane
- Status Bar

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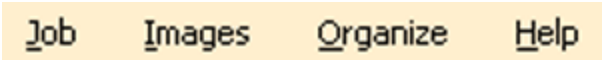
4.1.2 Menu Bar

The menu bar is located at the top of the Main window. It contains the following menus.



Menu Bar

- Job menu

The Job menu contains file and system-related commands. It has the following options:

- New Job: Creates a new job by selected job type.
- Open Job: Used to locate and open an existing job.
- Close Job: Closes the current job.
- Settings: Used to set options for the current job.
- Preferences: Opens the Preferences dialog box which is used to specify the locations where PPP, TMC Capture, TOC Builder, and Link Builder are installed.
- Exit: Closes TMC.

- Images menu

This menu contains commands for separating the images for quality control purposes, checking them in PPP and recombining them into a single directory. The menu options are:

- Setup Rules: Opens the dialog box used to establish the rules for separating images.
- Separate Images: Used to separate images and place them in separate directories based on criteria defined in the PPP Rules dialog box.
- Run PPP: Used to start PPP and perform image processing.
- Merge Images:Temporarily merges the images for quality control checking in PPP.
- Merge Directories: Combines the image directories into a single directory.

- Organize menu

The organize menu contains job organization related commands. It has the following options:

- Image Tree: Opens and displays an image tree.
- Run ELAN TOC Builder: Used to create or modify a table of contents or list of illustrations, tables, or pages using TOC Builder.
- Insert Bookmarks from File: Allows you to insert bookmarks from a file.
- Run Link Builder: Starts Link Builder, which is used to discover, organize, modify, and delete links within a job.

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- Convert to PDF: Merges image files into a single PDF document.
- PDF Document: Used to open and display a PDF document.
- Run TMC Capture: Starts TMC Capture.
- Insert Image Files: Used to insert additional image files into the current job.
- Rescan Directory: Allows you to restore the image tree to its original state.

The Organize menu is only available in Tree mode.

- Help menu

The Help menu provides online help and information about TMC. The menu options are:

- Help: Accesses TMC online help.
- About: Provides information about the version of TMC loaded on your PC.

4.1.3 Toolbar

The toolbar is located on the top of the Main window. It has the following icons for the most frequently used commands:

Browse Mode: Used to place the Tree in Browse viewing mode.

Setup Rules: Opens the dialog box used to establish rules for separating images.

Separate Images: Separate images using the criteria in the PPP Rules dialog box.

Run PPP: Used to start PPP and perform image processing.

Merge Images: Used to temporarily merge images for quality control checking in PPP.

Merge Directories: Merges separate image directories into a single directory.

Settings: Used to change TMC job settings.

Image Tree: Used to place the Tree in Tree viewing mode.

Run TOC Builder: Used to create or modify a table of contents or list of illustrations, tables, or pages using TOC

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Builder.

Insert Bookmarks: Used to insert bookmarks from a table of contents or list of tables, illustrations, or pages file.

Run Link Builder: Starts Link Builder, which is used to discover, organize, modify, and delete links within a job.

Convert to PDF: Merges the image files into a single PDF document.

PDF Document: Used to open an existing PDF document.

Run TMC Capture: Starts TMC Capture.

Exit: Exits TMC.

4.1.4 The ELAN Job Tree

The Tree is used to locate a job and view its hierarchy. The appearance and functionality of the Tree varies with the viewing mode.

- **Browse Mode**

When Browse mode is selected, the Tree consists of a top and bottom pane.

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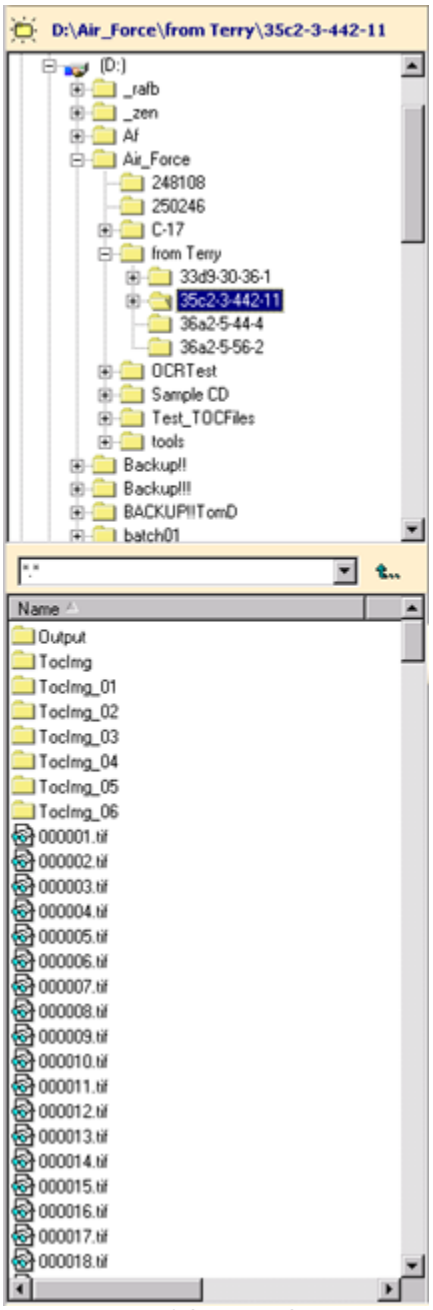

Appearance of the Tree in Browse Mode

The top portion of the tree displays the directories and files on the selected drive. The New Folder icon allows you to insert a new folder.

The bottom portion of the tree is used to filter files. The top margin of the bottom pane contains the Filter Type combo box and Folder Up icon. These are used to specify the type of file to be filtered for and the directory to be filtered. The filter results are displayed in the bottom pane.

-

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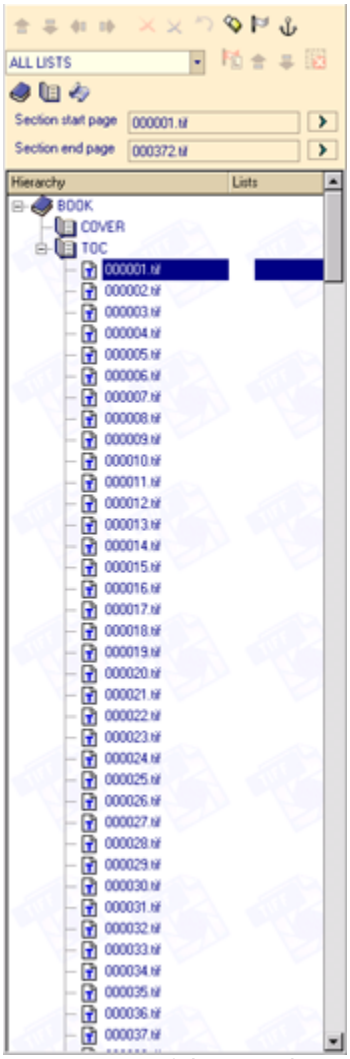
Tree Mode

If tree mode is selected, the hierarchy of the current job is displayed.



Appearance of the Tree in Tree Mode

When tree mode is selected, you can organize the files and create hierarchy levels using the following icons and data entry fields:

Node Up: Moves a node up one level in the job hierarchy.

Node Down: Moves a node down one level in the job hierarchy.

Decrease Level: Used to decrease the hierarchy level of a node.

Increase Level: Increases the hierarchy level of a node.

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Delete Selected Level: Deletes the selected hierarchy level.

Forced Delete: Used to delete a file or hierarchy level.

Undo: Allows you to undo the last change.

Clear Tree: Used to clear the tree.

Toggle TOC Error State: Used to flag the selected hierarchy level as faulty.

Enable File Node Movement: Unlocks file nodes in the hierarchy so they may be moved.

Toggle List Error State: Allows you to flag a list as faulty.

Move List Item Up: Moves the selected list item up in the hierarchy.

Move List Item Down: Moves the selected list item down in the hierarchy.

Delete List Item: Deletes the selected list item.

H0: Allows you to insert a top level hierarchy.

H1: Used to insert a mid-level hierarchy.

H2: Allows you to insert a bottom level hierarchy.

In Tree mode, the Tree has two data entry fields:

- Section Start Page: Used to enter the starting page of a table of contents or list of illustrations, tables, or pages.

- Section Stop Page: The end page of a table of contents or list of illustrations, tables, or pages is entered in this field.

To the right of each of the above fields is a Set Section Page icon, which is used to enter the selection made in the field.

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4.1.5 Editor/Viever

Image Viewer

The Image Viewer window displays image files selected from the Tree.

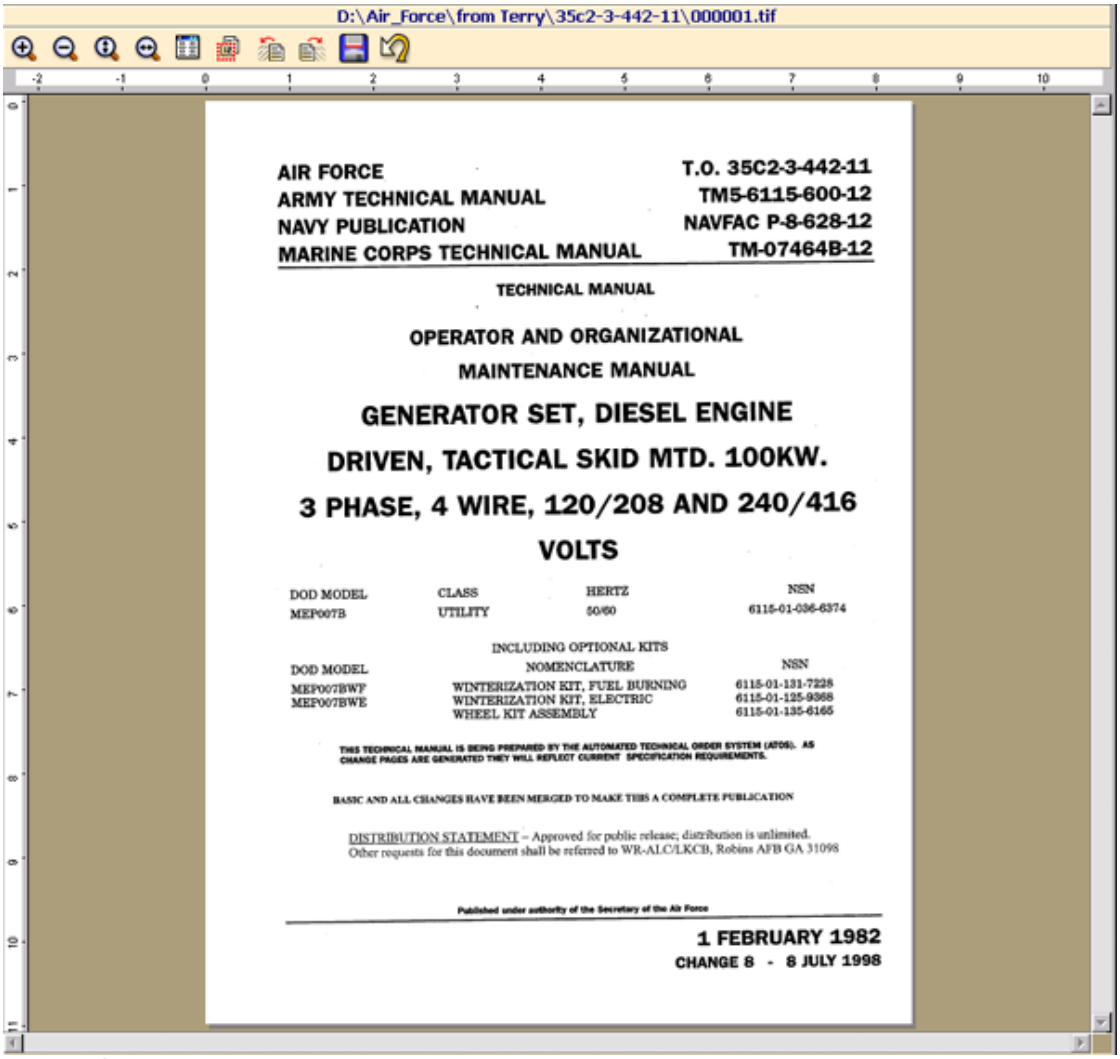

Image Viewer

At the top of the Image Viewer is a toolbar. It displays the path to the image file and has the following icons for controlling how the image is displayed:

Zoom In: Enlarges the displayed image.

Zoom Out: Reduces the size of the displayed image.

Fit to Height: Fits the image's top and bottom edges to those of the display area.

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Fit to Width: Fits the image's left and right edges to the display area's width.

Show/Hide Thumbnails: Shows or hides thumbnails in the Main window Thumbnails pane.

Select: Used in conjunction with the mouse to select an area of the displayed image.

Rotate Left: Rotates the displayed image counter-clockwise in 90 degree increments

Rotate Right: Rotates the displayed image clockwise in 90 degree increments.

Save Image: Used to save images following rotation.

Undo: Allows you to undo image rotation.

You can also control how an image is displayed and navigate through the image list by using the following keys on the numeric keypad:

Action	Key
Zoom In	+
Zoom Out	-
Fit to Width	*
Fit to Height	/
Scroll Page Up	PgUp
Scroll Page Down	PgDn

4.1.6 PDF Viewer

The PDF viewer displays PDF documents selected from the Tree.

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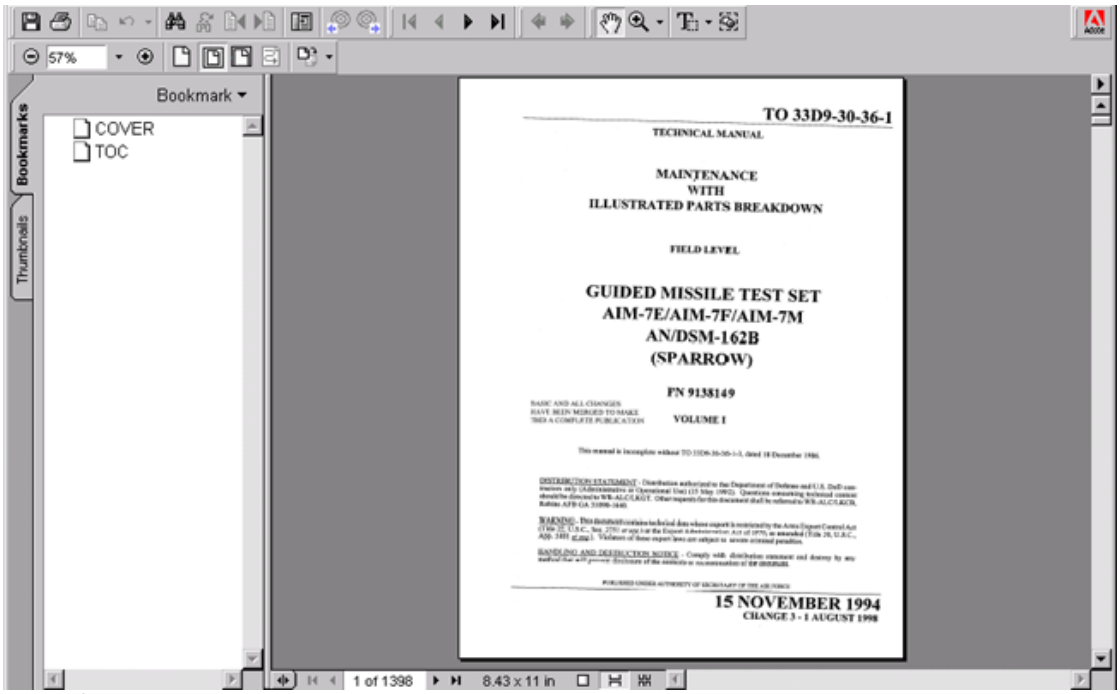

PDF Viewer

The PDF viewer is an ActiveX component and its appearance will vary depending on the ActiveX version installed on your computer. The viewer has several icons that allow you to navigate through the document, control how it is displayed, and enable you to perform various tasks. These icons are described in detail in the viewer vendor documentation.

4.1.7 Thumbnail Pane

The Thumbnail pane displays thumbnails of the image files in the currently selected directory or Tree.

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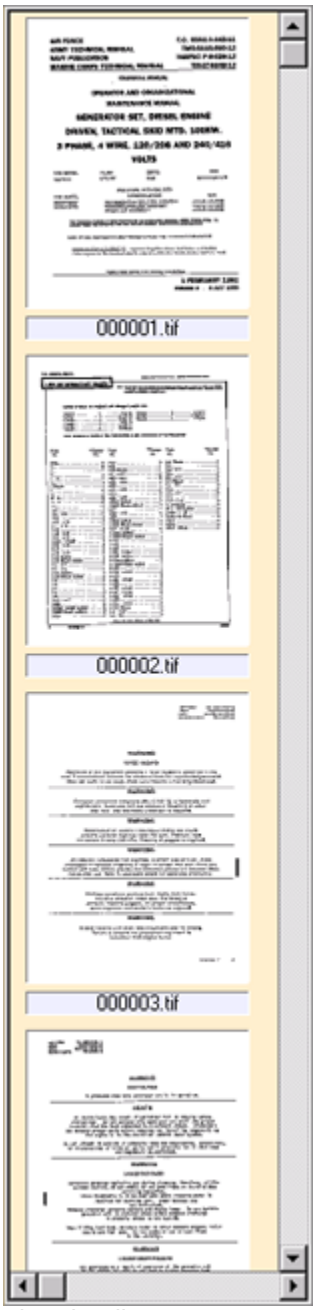

Thumbnail Pane

The Thumbnail pane is located on the right side of the Main window. It is displayed or hidden using the Show/Hide Thumbnails icon on the Image Viewer toolbar.

4.1.8 Status Bar

The status bar is located at the bottom of the main window. It displays the current job type, job mode, filename and path, and other information.

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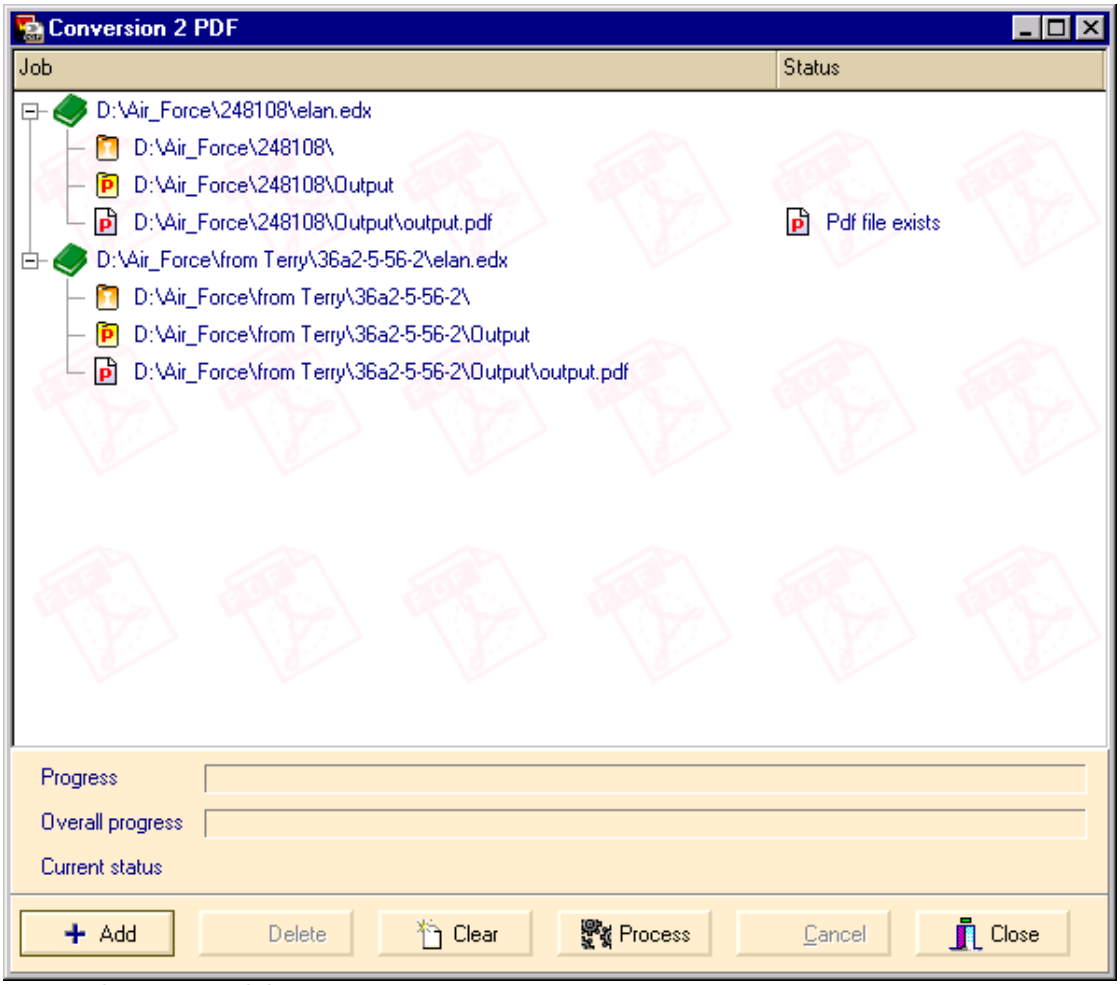
Status Bar

4.2 Dialog Boxes

4.2.1 Conversion 2 PDF Dialog Box

The Conversion to PDF dialog box is used to execute the conversion of image files into PDF and to set up PDF batch processing.



Conversion 2 PDF Dialog Box

This dialog box has the following features.

- **Job List Pane**

This portion of the dialog box lists the jobs in a two column format. The columns are:

Job Column: The name and location of the job.

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Status column: Indicates if a PDF file currently exists for the job and other information.

Add button: Used to add a new job.

Delete button: Clicking this button deletes the selected job.

Clear button: This button is used to clear all jobs from the Job List pane.

Process button: Used to convert the jobs in the Job List to PDF.

Cancel button: Clicking this button dismisses the dialog box without applying any changes that may have been made.

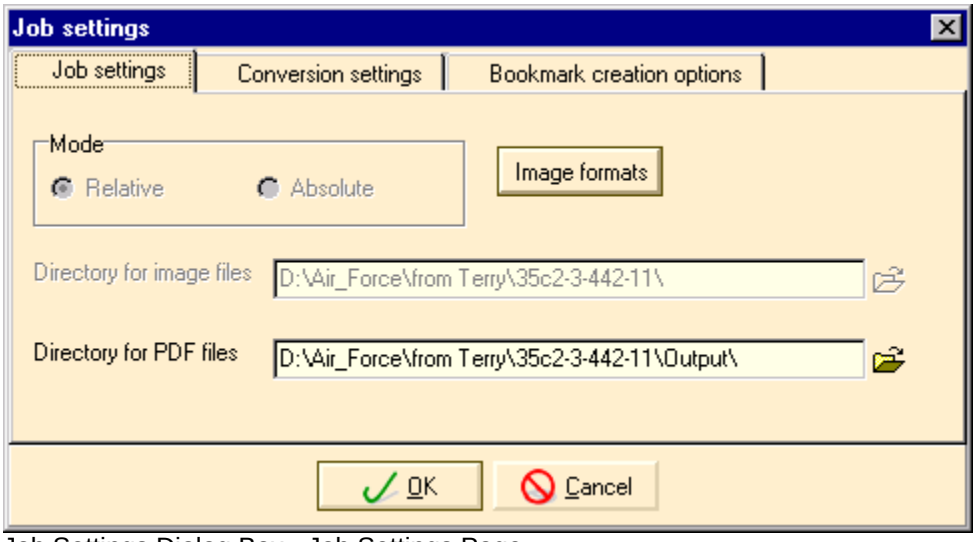
Close button: This button is used to close the dialog box following PDF conversion.

4.2.2 Job Settings Dialog Box

This dialog box is used to modify the settings of an existing job. It has three pages: Job Settings, Conversion Settings and Bookmark Creation Options.

Job Settings page

The settings in this page determine the directories that files will be read from, written to, and the types of files displayed in the Tree.



Job Settings Dialog Box - Job Settings Page

This page has the following features:

Mode group: This group has radio buttons that enable you to use directory paths provided by the application or to specify the directory paths yourself. The default selection is Relative.

Relative button: Selecting will this button requires you to only specify the image file directory. The PDF file directory is automatically selected or created by the application.

Absolute button: Allows you to manually enter directories for the image and PDF files.

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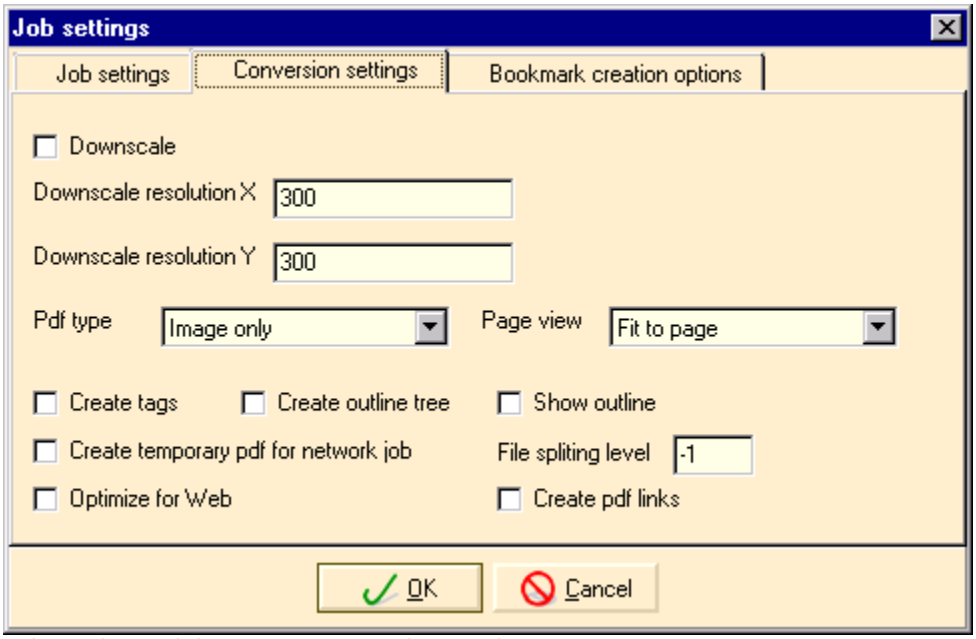
Image Formats button: Clicking this button opens a dialog box that allows you to select the image file types displayed in the Tree. The default is TIFF.

Directory for Image Files field: This field displays the directory from which image files will be read during the PDF conversion process.

Directory for PDF Files field: The location that the PDF file will be written to is displayed in this field. This field is only available in Absolute mode.

▪ Conversion Settings page

The Conversion Settings page is used to set the PDF conversion parameters.



Job Settings Dialog Box - Conversion Settings Page

This page has the following checkboxes, fields, and combo boxes:

Downscale Checkbox: This checkbox is used to reduce the resolution of images files by the amounts specified in the Downscale Resolution X and Downscale Resolution Y fields. This checkbox is unchecked by default.

Downscale Resolution X field: Used to enter the x-axis resolution, in dots per inch, to be used during down scaling. The default value is 300.

Downscale Resolution Y field: Used to enter the y-axis resolution, in dots per inch, to be used during down scaling. The default value is 300.

PDF Type combo box: The type of PDF file to be generated is selected using the combo box. Selecting Image Only will merge the images into a PDF file with no OCR processing of the text. Selecting Image + Text will merge images into a PDF file and perform OCR on the text. The default selection is Image Only.

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Page View combo box: Used to select how PDF pages are displayed (fit to width or fit to height). The default setting is Fit to Page.

Create Tags checkbox: This feature is currently under development.

Create Outline Tree checkbox: Used to create an outline of the bookmarks in the PDF document. This checkbox is unchecked by default.

Show Outline checkbox: Used to show or hide the outline of PDF documents when they are viewed in the PDF Viewer. This checkbox is checked by default.

Create Temporary PDF for Network Job: Allows you to create temporary a PDF on your PC when the image files being converted are accessed over a network. This prevents jobs from being slowed down by server authentication requirements and makes batch processing over a network easier. This checkbox is unchecked by default.

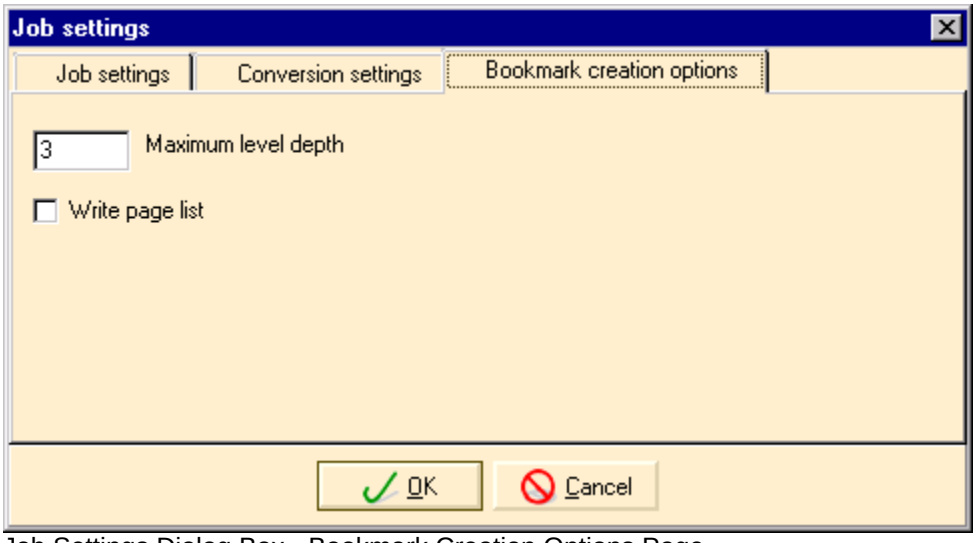
File Splitting Level: This feature is currently unavailable.

Optimize for Web: Optimizes PDF files for faster downloading and manipulation over the Internet. Optimizing a PDF file allows the user to view a single page of a PDF document on demand rather than downloading the entire document.

Create PDF Links: Used to include links created using Link Builder in the PDF file.

▪ Bookmark Creation Options page

This page is used to specify bookmarks and list of page options to be used when PDF documents are generated.



Job Settings Dialog Box - Bookmark Creation Options Page

This page has the following features:

Maximum Level Depth field: Sets the maximum number of PDF document bookmark hierarchy levels. The default value is 3.

Write Page List checkbox: Used to include lists of pages in PDF documents. This checkbox

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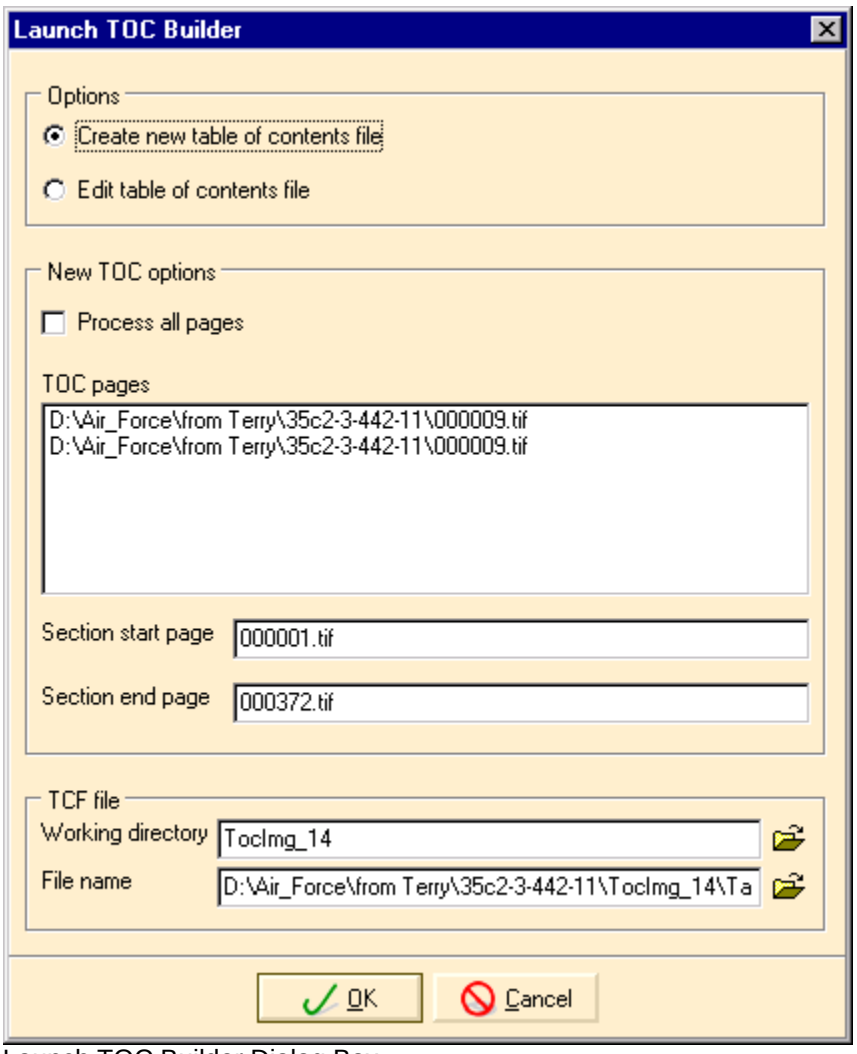
is clear by default.

OK button: Clicking this button saves the settings and closes the dialog box.

Cancel button: Used to dismiss the dialog box without applying any changes that may have been made.

4.2.3 Launch TOC Builder Dialog Box

The Launch TOC Builder dialog box (See Figure) is used to select the information to be used to create or modify a table of contents or list of illustrations, tables, or pages file. It is also used to specify the name and file path to be used when the TOC or list file is saved.



Launch TOC Builder Dialog Box

Options group

The Options group contains the following radio buttons:

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Create New Table of Contents File: Used to create a new table of contents or list of illustrations, tables, or pages file.

Edit Table of Contents File: This button is selected to modify an existing TOC or list file.

By default, Create New Table of Contents File is selected.

New TOC Options group

This group is used to specify the range of pages to be used to compile the TOC or list of illustrations, tables, or pages file. It has the following checkboxes and fields:

Process All Pages: Selecting this checkbox will result in all of the pages in the directory being used to compile the TOC or list file. If this box is checked, any entries in the Section Start Page and Section End Page fields will be ignored. This checkbox is unchecked by default.

TOC Pages: Lists the image files to be used to create the new TOC or list.

Section Start Page: The filename of the first image to be used to create the TOC or list file.

Section End Page: The filename of the last image to be used to create the TOC or list file.

TCF File group

The TCF File group is used to specify the location and name of the TOC or list file. It contains two fields:

Working Directory: Used to specify a directory in which to place a new TOC or list file.

File Name: This field is used to specify the path and name of the new or modified TOC or list file.

OK button: Clicking this button saves the information in the data entry fields and closes the dialog box.

Cancel button: Used to dismiss the dialog box without applying any changes that may have been made.

4.2.4 Link Discovery Dialog Box

The Link Discovery dialog box is used to execute the discovery of links from bookmark files and to set up link discovery batch jobs.

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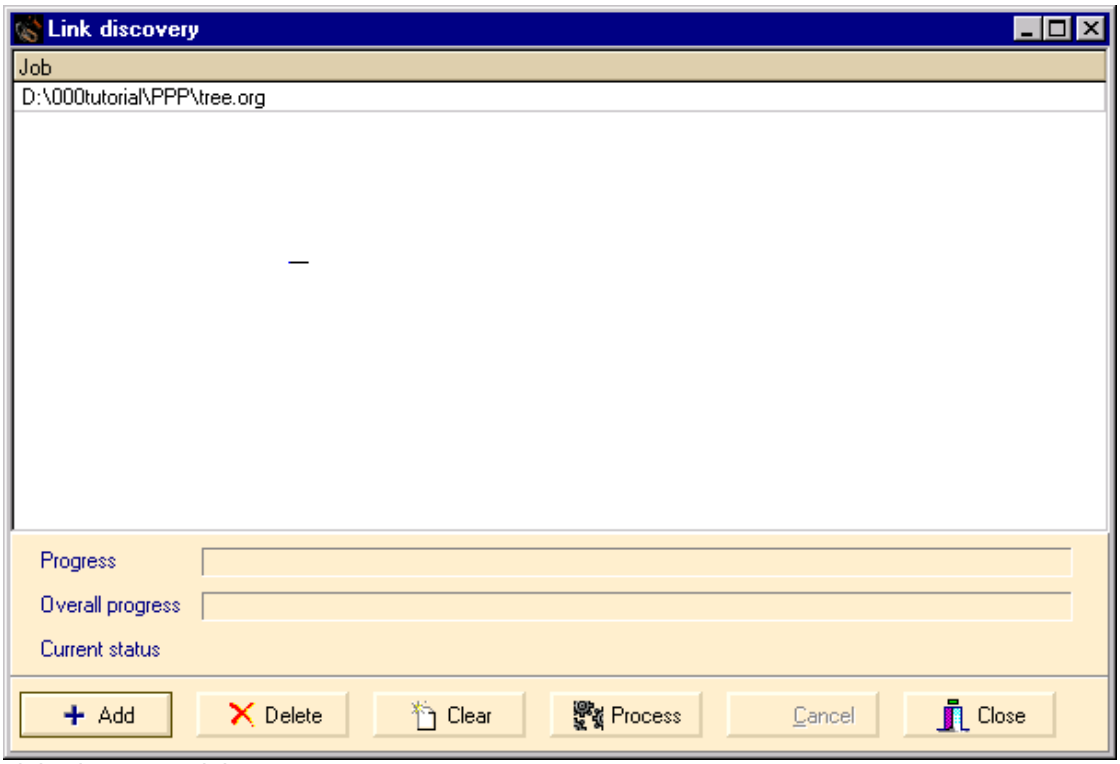

Link Discovery Dialog Box

This dialog box has the following features:

Job Pane: This portion of the dialog box lists the jobs.

Add button: Used to add a new job.

Delete button: Clicking this button deletes the selected job.

Clear button: This button is used to clear all jobs from the Job pane.

Process button: Used to start the link discovery process.

Cancel button: Clicking this button dismisses the dialog box without applying any changes that may have been made.

Close button: This button is used to close the dialog box following link discovery.

4.2.5 New Job Dialog Box

This dialog box is used to establish the settings when a new job is created. It has three pages: Job Settings, Conversion Settings and Bookmark Creation Options.

Note: The TMC software comes from the factory with default new job settings. In most cases, it is not necessary for the information in this dialog box to be changed.

- **Job Settings page**

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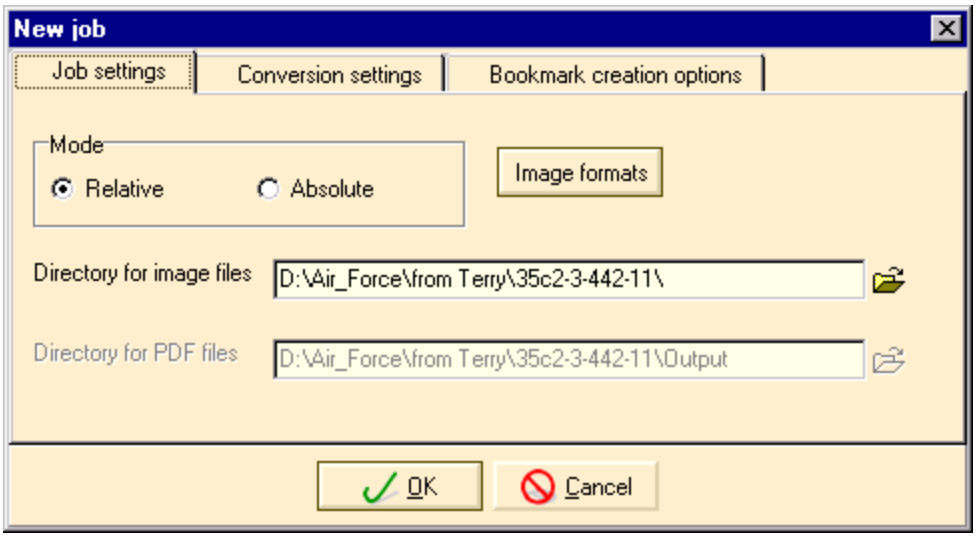
The directories that files will be read from, written to, and the types of files displayed in the Tree are determined by the settings in this page.



New Job Dialog Box - Job Settings Page

This page has the following features:

Mode Group: This group has radio buttons that enable you to use directory paths provided by the application or
to specify the directory paths yourself. The default selection is Relative.

Relative Button: Selecting this button requires you to only specify the image file directory. The PDF file directory is automatically selected or created by the application.

Absolute Button: Allows you to manually enter directories for the image and PDF files.

Image Formats button: Clicking this button opens a dialog box that allows you to select the image file types displayed in the tree. The default is TIFF.

Directory for Image Files field: This field displays the directory from which image files will be read during the PDF conversion process.

Directory for PDF Files field: The location that the PDF file will be written to is displayed in this field. This field is only available in Absolute mode.

▪ Conversion Settings page

The Conversion Settings page is used to set the PDF conversion parameters.

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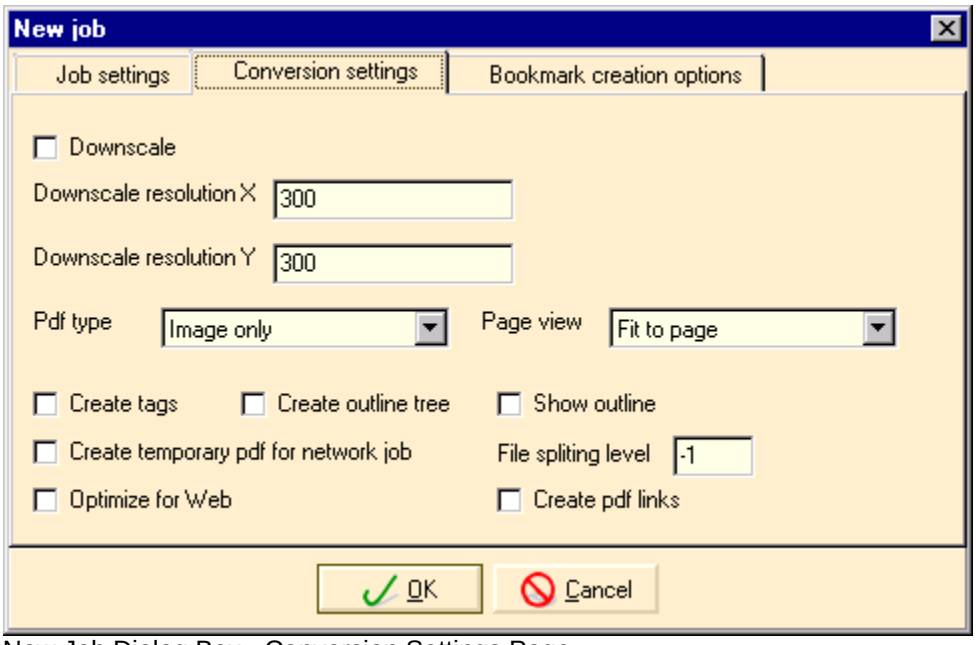

New Job Dialog Box - Conversion Settings Page

This page has the following checkboxes, fields and combo boxes:

Downscale Checkbox: This checkbox is used to reduce the resolution of images files by the amounts specified in the Downscale Resolution X and Downscale Resolution Y fields. This box is unchecked by default.

Downscale Resolution X field: The x-axis resolution, in dots per inch, to be used when images are down scaled is entered in this field. The default value is 300.

Downscale Resolution Y field: Used to enter the y-axis resolution, in dots per inch, to be used during down scaling. The default value is 300.

PDF Type combo box: The type of PDF file to be generated is selected using this combo box. Selecting Image Only will merge the images into a PDF file with no OCR processing of the text. Selecting Image + Text will merge images into a PDF file and perform OCR on the text. The default selection is Image Only.

Page View combo box: Used to select how PDF pages are displayed (fit to width or fit to height). The default setting is Fit to Page.

Create Tags checkbox: This feature is currently underdevelopment.

Create Outline Tree checkbox: Used to create an outline in the PDF document of the bookmarks. This checkbox is unchecked by default.

Show Outline checkbox: Used to show or hide the outline of PDF documents when they are viewed in the PDF Viewer. This checkbox is checked by default.

Create Temporary PDF for Network Job: Allows you to create temporary a PDF on your PC when the image files being converted are accessed over a network. This prevents jobs from being slowed down by server authentication requirements and makes batch processing over a network easier. This checkbox is unchecked by default.

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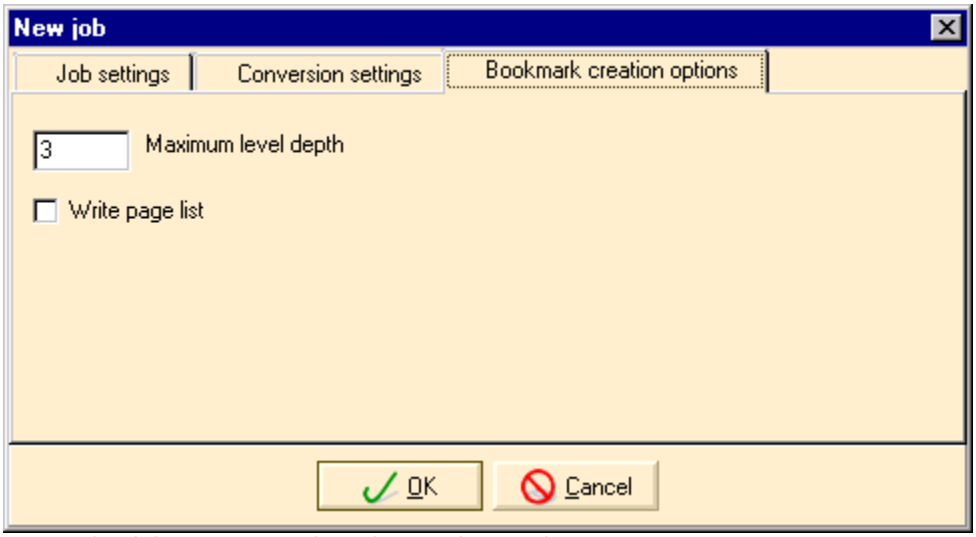
File Splitting Level: This feature is currently unavailable.

Optimize for Web: Optimizes PDF files for faster downloading and manipulation over the Internet. Optimizing a PDF file allows the user to view a single page of a PDF document on demand rather than downloading the entire document.

Create PDF Links: Used to include links created using Link Builder in the PDF file.

Bookmark Creation Options page

This page is used to specify bookmark and list of page options to be used when PDF documents are generated.



New Job Dialog Box - Bookmark Creation Options Page

This page has the following features:

Maximum Level Depth field: Sets the maximum number of PDF document bookmark hierarchy levels. The default value is 3.

Write Page List checkbox: Used to include lists of pages in PDF documents. This checkbox is clear by default.

OK button: Clicking this button saves the settings and closes the dialog box.

Cancel button: Used to dismiss the dialog box without applying any changes that may have been made.

4.2.6 PPP Rules Dialog Box

The PPP Rules dialog box allows you to add, modify, delete, export and import rules that determine where image files are saved based on their dimensions and color depth.

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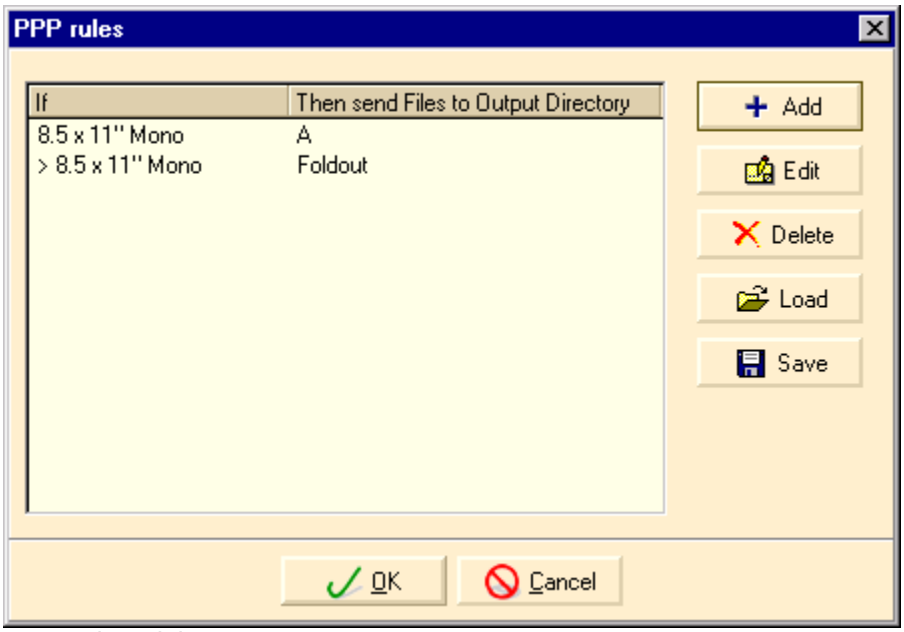

PPP Rules Dialog Box

Note: The TMC software comes from the factory with two default PPP rules.

This dialog box has the following features:

Rules Pane: This portion of the dialog box lists the rules in a two column If-Then format. The columns are:

IF column: The image size and color depth for each rule.

Then Send Files To Output Directory column: For each set of criteria listed in the left column, this column lists the location where images that meet the criteria will be stored.

Add button: Used to add a new rule.

Edit button: Clicking this button opens a dialog box that is used to edit the selected rule.

Delete button: Used to delete the selected rule.

Load button: This button is used to import rules from an existing rules file.

Save button: Opens a dialog box that allows you to save the rules settings to a file.

OK button: Clicking this button saves the settings and closes the dialog box.

Cancel button: Used to dismiss the dialog box without applying any changes that may have been made.

4.2.7 Preferences Dialog Box

The Preferences dialog box is used to direct TMC to the locations where the PPP, TMC Capture, TOC Builder and Link Builder programs are installed.

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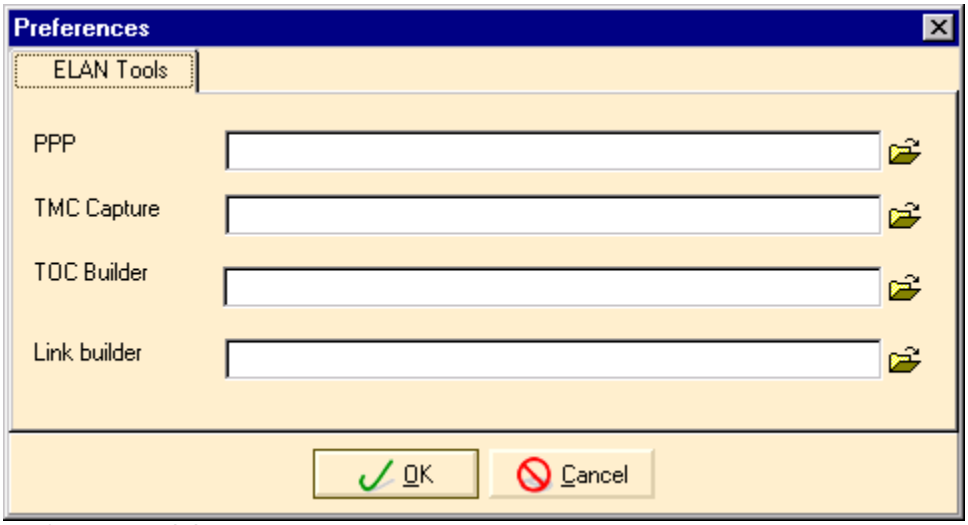

Preferences Dialog Box

Note: The TMC software comes from the factory with the paths to these programs already specified. In most cases, it is not necessary for the information in these fields to be changed.

PPP field: This field is used to enter the path to the location where PPP is installed.

TMC Capture field: Used to enter the file path to TMC Capture.

TOC Builder field: The location of TOC Builder is specified in this field.

Link Builder field: This field is used to enter the path to the location where Link Builder is installed.

OK button: Clicking this button saves the information in the data entry fields and closes the dialog box.

Cancel button: Used to dismiss the dialog box without applying any changes that may have been made.

4.3 TOC Builder Window

4.3.1 TOC Builder Window

Most of the tasks related to creating and organizing a table of contents and a list of tables, illustrations or pages are performed within this window. It is used to select and view the image files, select areas within the image files for OCR conversion, and to view and organize the table of contents or list.

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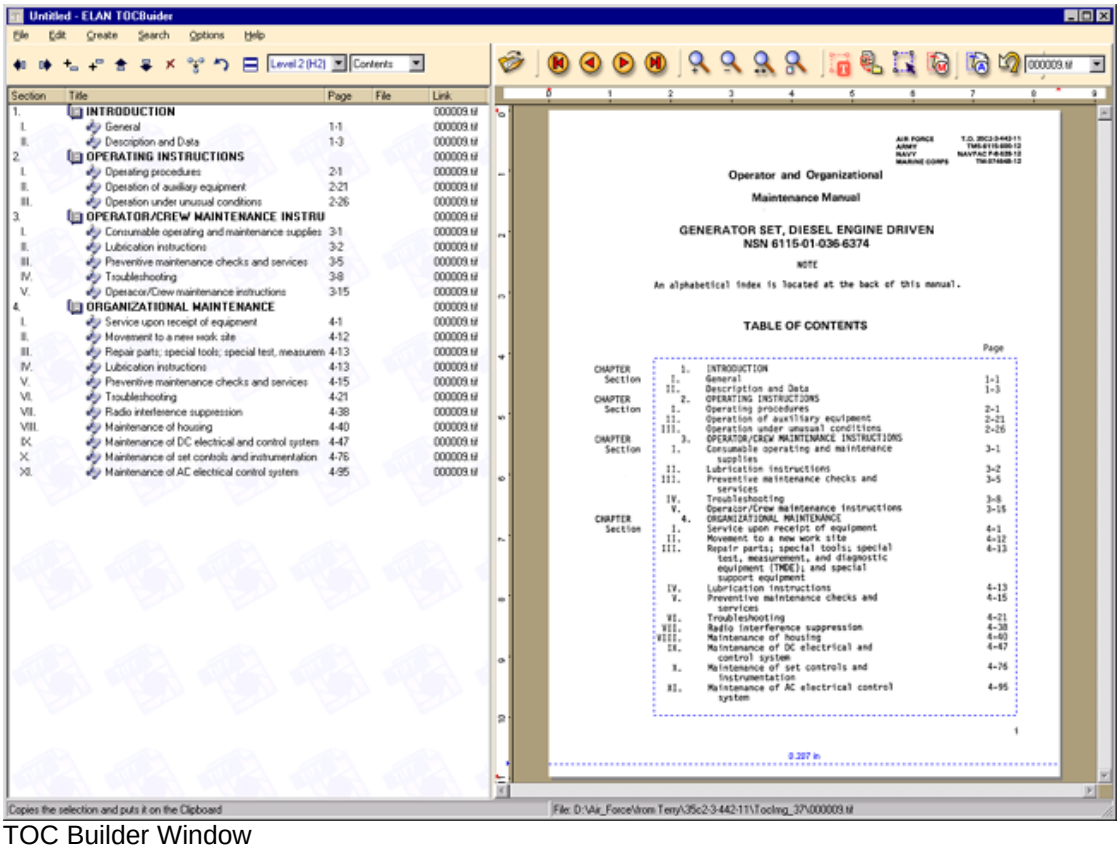
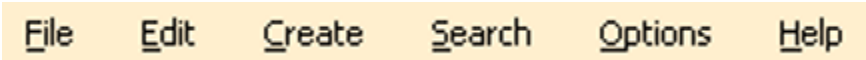

Untitled - ELAN TOCBuider
File Edit Create Search Options Help
Section Title Page File Link
1. INTRODUCTION
I. General 1-1
II. Description and Data 1-3
2. OPERATING INSTRUCTIONS
I. Operating procedures 2-1
II. Operation of auxiliary equipment 2-21
III. Operation under unusual conditions 2-26
3. OPERATOR/CREW MAINTENANCE INSTRU
I. Consumable operating and maintenance supplies 3-1
II. Lubrication instructions 3-2
III. Preventive maintenance checks and services 3-5
IV. Troubleshooting 3-8
V. Operacor/Crew maintenance instructions 3-15
4. ORGANIZATIONAL MAINTENANCE
I. Service upon receipt of equipment 4-1
II. Movement to a new work site 4-12
III. Repair parts; special tools; special test, measurem 4-13
IV. Lubrication instructions 4-13
V. Preventive maintenance checks and services 4-15
VI. Troubleshooting 4-21
VII. Radio interference suppression 4-38
VIII. Maintenance of housing 4-40
IX. Maintenance of DC electrical and control system 4-47
X. Maintenance of set controls and instrumentation 4-76
XI. Maintenance of AC electrical control system 4-95
Operator and Organizational
Maintenance Manual
GENERATOR SET, DIESEL ENGINE DRIVEN
NSN 6115-01-036-6374
NOTE
An alphabetical index is located at the back of this manual.
TABLE OF CONTENTS
Page
Copies the selection and puts it on the Clipboard
TOC Builder Window

The TOC Builder window has the following major parts:

- Menu Bar
- Image
- Pane
- TOC
- Pane

4.3.2 Menu Bar

Menu BarThe menu bar is located at the top of the TOC Builder window. It contains the following menus.



- Menu Bar

File menu: This menu contains commands related to opening, saving, and closing TOC and list files. The options are:

New: Used to create a new TOC or list of illustrations, tables or pages.

Open: Used to open an existing TOC or list file.

Save: Saves the current table of contents list of illustrations, tables or pages.

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Save As: Used to save the TOC or list file using a different name or in a different location.

Exit: Closes TOC Builder.

Edit menu: The Edit menu contains the following option:

Add String: Used to add a text string to the title in a list item.

Create menu: This menu contains options for creating source document page lists and adding new selections to the Current Item Type combo box.

Build Page List: Compiles a list of the document pages that were scanned.

Create New Section: Used to add a custom option to the Current Item Type combo box.

Search menu: The search menu provides options for locating and replacing text within tables of contents and lists.

Find: Allows you to locate a text string within a TOC or list.

Replace: Used to locate and replace text within a TOC or list.

Options menu: This menu has commands that allow you to control the way a TOC or list of illustrations, tables or pages is generated and displayed.

Separate Section Number: Removes the section numbers from list items.

Upper Case: Generates the list item titles in upper case letters.

Multi-line Filter On: Prevents single list items from being broken into multiple list items.

Window Horizontally: Places the Image pane at the top of the TOC Builder window and the TOC pane at the bottom.

Page Match Range: Used to control the first and last pages in a page range to be used to generate a TOC or list.

Ordered Page Match: Enabling this option will result in TOC or list items being linked only if the source document page numbers are in sequence. It is normally enabled when generating TOCs and lists, but is typically disabled when creating indices.

Delete Matches Upon Rematch: Selecting this option will cause existing links between image files and their corresponding list items to be deleted when a rematch is performed.

Help menu: The Help menu offers information about TOC Builder. There is one menu option:

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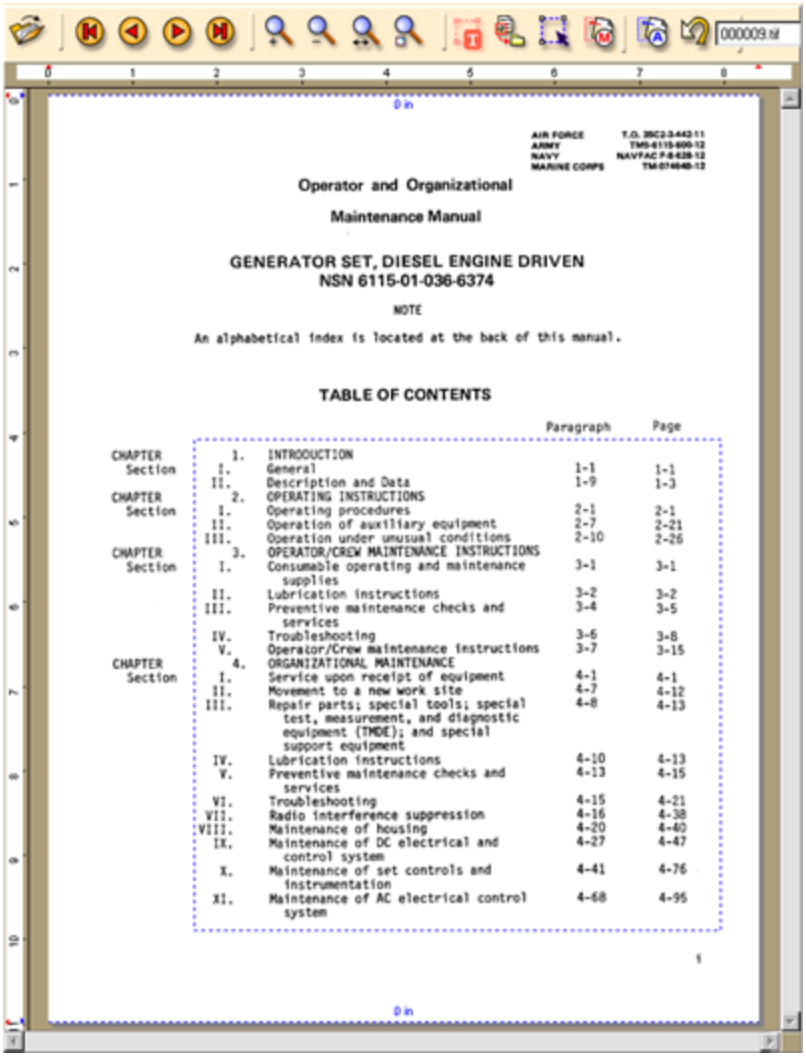
About: Provides information about the TOC Builder version.

4.3.3 Image Pane

The Image pane is used to select and view the image files and to select areas within the image files for OCR conversion into a table of contents or list of illustrations, tables, or pages.



AIR FORCE T.O. 35C3-3-443-11
ARMY TM5-6115-600-12
NAVY NAVFAC P-8-628-12
MARINE CORPS TM-074648-12

Operator and Organizational

Maintenance Manual

GENERATOR SET, DIESEL ENGINE DRIVEN
NSN 6115-01-036-6374

NOTE

An alphabetical index is located at the back of this manual.

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Section I.	Service upon receipt of equipment	4-1	4-1
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III.	Repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and special support equipment	4-8	4-13
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VII.	Radio interference suppression	4-16	4-38
VIII.	Maintenance of housing	4-20	4-40
IX.	Maintenance of DC electrical and control system	4-27	4-47
X.	Maintenance of set controls and instrumentation	4-41	4-76
XI.	Maintenance of AC electrical control system	4-68	4-95

1

Image Pane

Across the top of the Image pane are several icons that allow you to navigate through an image file list, control how the images are displayed, and perform various tasks. These icons are listed below.

Open Content Page: Used to locate and display an image outside of the current file list.

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First Page: Displays the first image in the file list.

Previous Page: Used to display the previous image.

Next Page: Displays the next image.

Last Page: Displays the last page in the image file list.

Zoom In: Enlarges the displayed image.

Zoom Out: Reduces the size of the displayed image.

Fit to Width: Fits the image's left and right edges to the display area's width.

Fit to Height: Fits the image's top and bottom edges to those of the display.

Convert to Text: Used with the mouse to select an area for conversion to text.

Automatic Page Match: Used to automatically match pages with files following OCR.

Select: Used in conjunction with the mouse to select an area of the displayed image.

Manual Deskew: Used to perform a manual deskew of the displayed image.

Auto Deskew: Performs an automatic deskew of the displayed image.

Undo: Used to undo the last change.

To the right of the icons is the Image File combo box. It allows you to select an image file from the current file list for display. It also shows the name of the image file currently being displayed.

4.3.4 TOC Pane

The TOC pane of the TOC Builder window displays the table of contents or list of illustrations,

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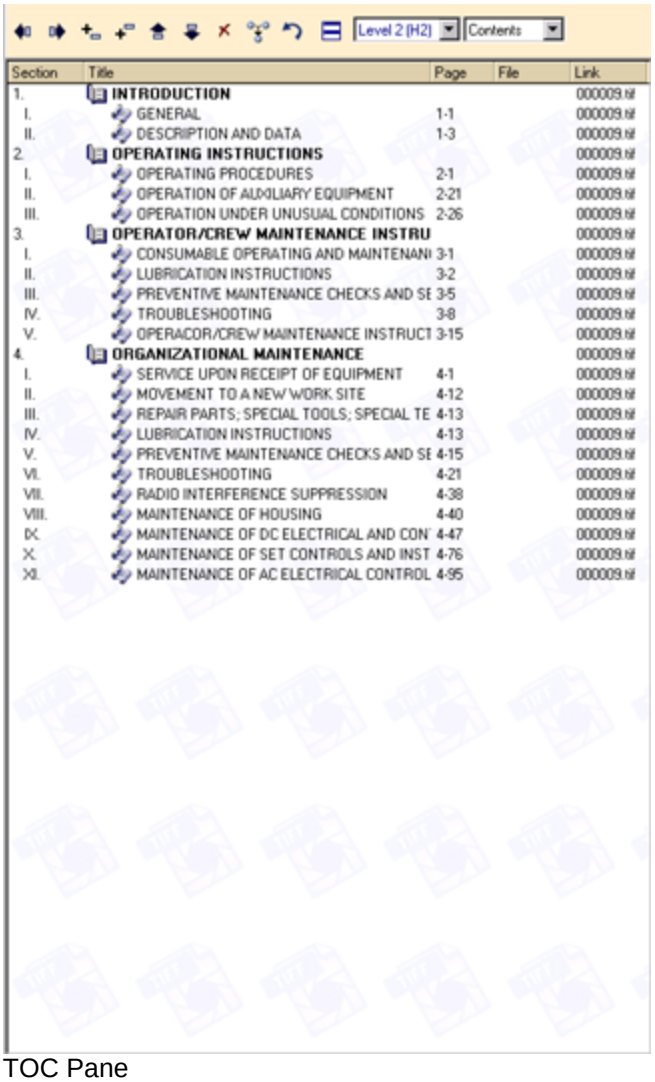
or list of tables or pages following OCR processing. It allows you to create, organize, and edit tables of contents and lists.


Level 2 (H2)
Contents
Section
Title
Page
File
Link
1. INTRODUCTION 000009.tif
I. GENERAL 1-1 000009.tif
II. DESCRIPTION AND DATA 1-3 000009.tif
2. OPERATING INSTRUCTIONS 000009.tif
I. OPERATING PROCEDURES 2-1 000009.tif
II. OPERATION OF AUXILIARY EQUIPMENT 2-21 000009.tif
III. OPERATION UNDER UNUSUAL CONDITIONS 2-26 000009.tif
3. OPERATOR/CREW MAINTENANCE INSTRU 000009.tif
I. CONSUMABLE OPERATING AND MAINTENANI 3-1 000009.tif
II. LUBRICATION INSTRUCTIONS 3-2 000009.tif
III. PREVENTIVE MAINTENANCE CHECKS AND SE 3-5 000009.tif
IV. TROUBLESHOOTING 3-8 000009.tif
V. OPERACOR/CREW MAINTENANCE INSTRUCT 3-15 000009.tif
4. ORGANIZATIONAL MAINTENANCE 000009.tif
I. SERVICE UPON RECEIPT OF EQUIPMENT 4-1 000009.tif
II. MOVEMENT TO A NEW WORK SITE 4-12 000009.tif
III. REPAIR PARTS; SPECIAL TOOLS; SPECIAL TE 4-13 000009.tif
IV. LUBRICATION INSTRUCTIONS 4-13 000009.tif
V. PREVENTIVE MAINTENANCE CHECKS AND SE 4-15 000009.tif
VI. TROUBLESHOOTING 4-21 000009.tif
VII. RADIO INTERFERENCE SUPPRESSION 4-38 000009.tif
VIII. MAINTENANCE OF HOUSING 4-40 000009.tif
IX. MAINTENANCE OF DC ELECTRICAL AND CON 4-47 000009.tif
X. MAINTENANCE OF SET CONTROLS AND INST 4-76 000009.tif
XI. MAINTENANCE OF AC ELECTRICAL CONTROL 4-95 000009.tif
TOC Pane

The OCR processed text is displayed in the List area and organized into the following columns:

Section: The level number or letter of the list.

Title: The name of the level

Page: The page number of the level.

File: The image file containing the topic, table, or illustration in the list item.

Link: The name of the image file from which the level was generated following OCR.

The information in each column of a line listing can be modified by placing the cursor over the text, double-clicking the right mouse button, and making the necessary changes.

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The top of the TOC pane has the following icons:

Move Left: Moves the selected item left in the TOC or list.

Move Right: Moves the selected item right in the TOC or list.

Insert Above: Inserts a blank line above the selected list item.

Insert Below: Inserts a blank line below the selected list item.

Move Up: Moves the selected item up in the TOC or list.

Move Down: Moves the selected item down in the TOC or list.

Delete Items: Deletes the selected list items.

Join: Joins the selected list items into a single list item.

Undo: Undoes the last edit.

Window Horizontally: Vertically, arranges the TOC Builder window panes.

The top of the pane also has the following combo boxes:

Current Indent Level: Used to set the hierarchy level of the selected list item.

Current Item Type: Allows you to set the type of the current list item.

4.4 Link Builder Window

4.4.1 Link Builder Window

The Link Builder application allows you to locate, organize, modify, and delete the links within a job.

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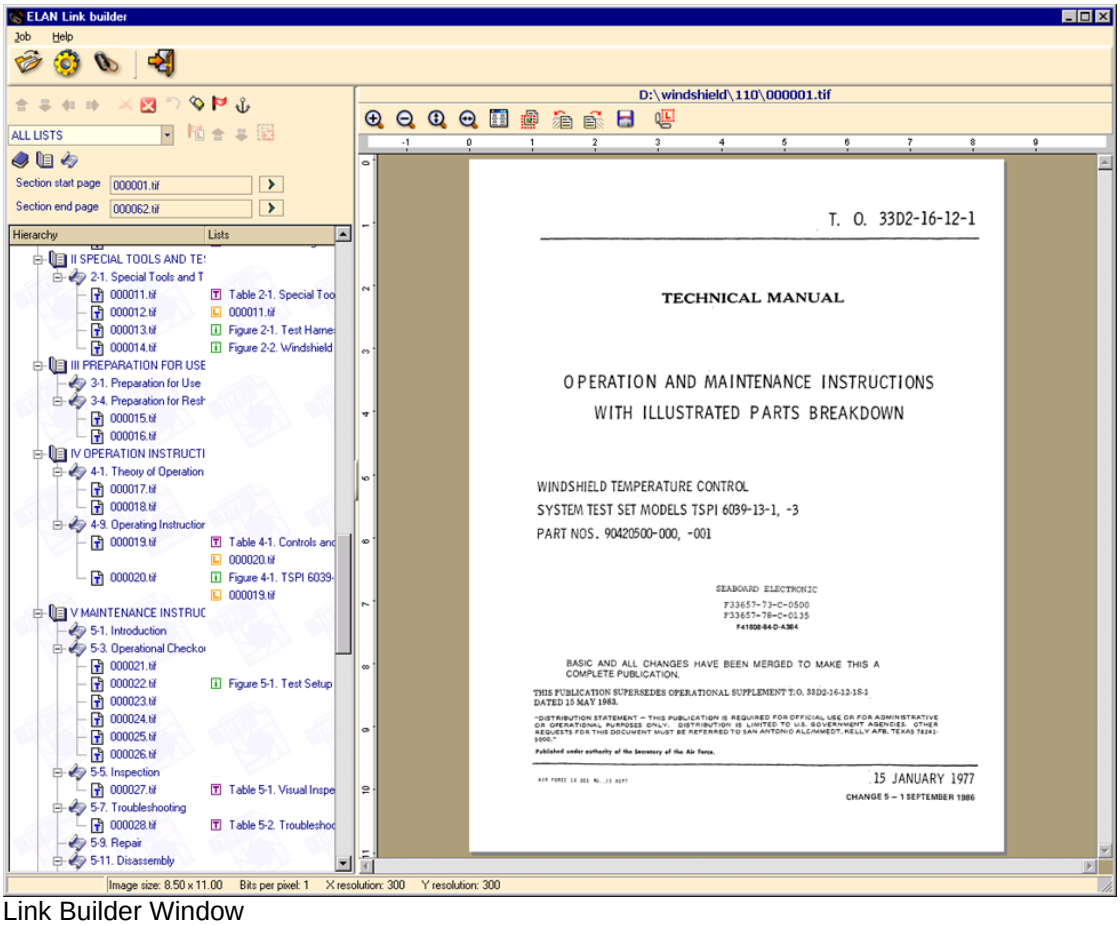


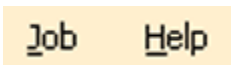
Link Builder Window

The Link Builder window has the following major parts:

- Menu
- Bar
- Toolbar
- Image
- Pane
- Page
- List Pane
- Thumbnail
- Pane

4.4.2 Menu Bar

The menu bar is located at the top of the Link Builder window. It contains the following menus.



- **Menu Bar**

Job menu: This menu contains commands related to opening, saving, and closing jobs within

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Link Builder. The options are:

Open Job: Used to locate and open an existing job.

Settings: This feature is currently unavailable.

Find Links: Searches the current job for links.

Close Job: Used to close the current job.

Exit: Closes Link Builder.

Help menu: The Help menu offers information about Link Builder. The menu options are:

Help: This feature has not been implemented. Information regarding Link Builder is contained within the TMC online help.

About: Provides information about the Link Builder version.

4.4.3 Toolbar

The toolbar is located on the top of the Link Builder window. It has the following icons for the most frequently used commands:

Open Job: Used to locate and open an existing job.

Settings: This feature in currently unavailable.

Discover Links: Searches the current job for links.

Exit: Closes Link Builder.

4.4.4 Image Pane

Link Builder's Image pane is used to view the image files contained in the page list.

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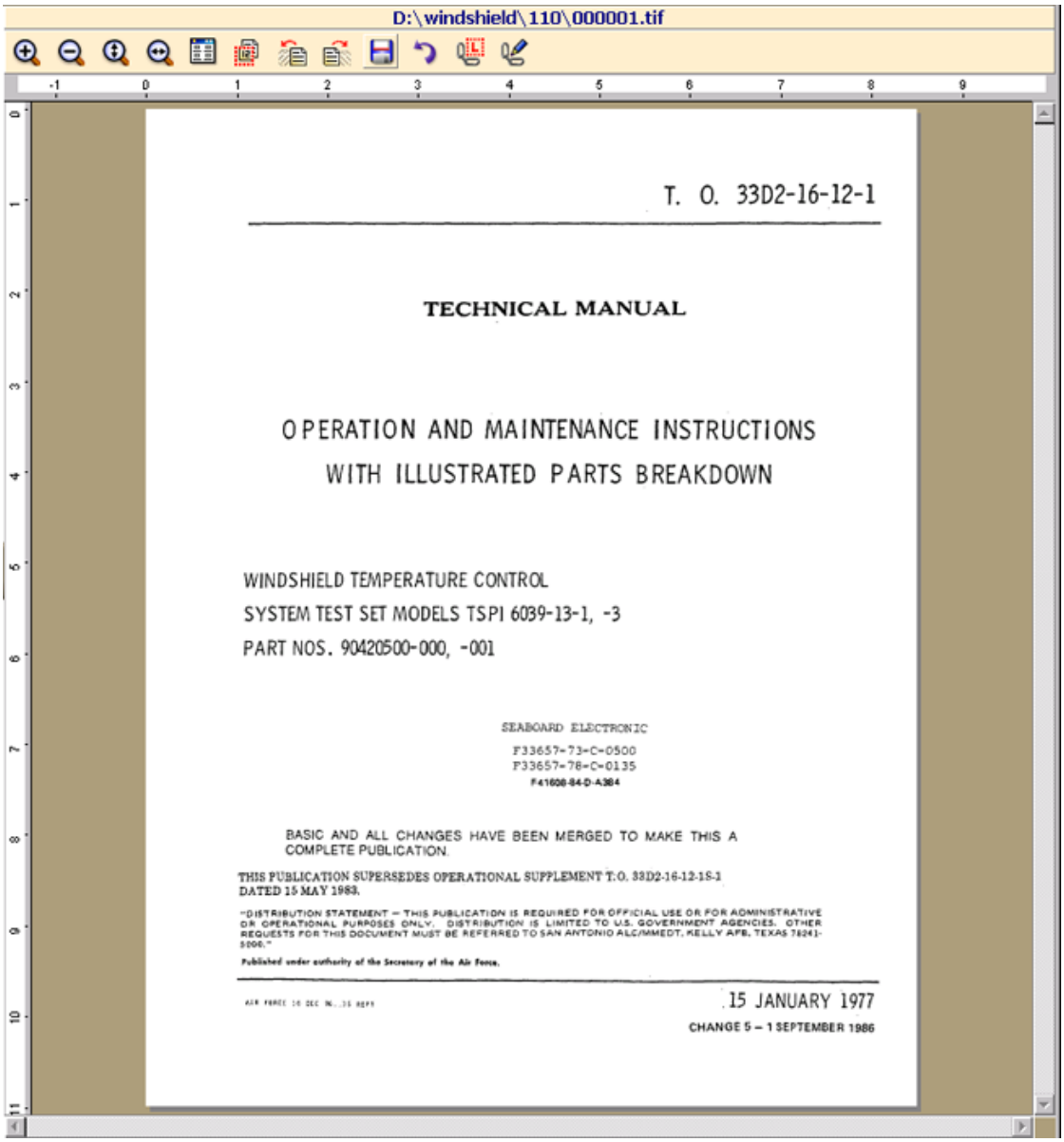
D:\windshield\110\000001.tif
T. O. 33D2-16-12-1
TECHNICAL MANUAL
OPERATION AND MAINTENANCE INSTRUCTIONS
WITH ILLUSTRATED PARTS BREAKDOWN
WINDSHIELD TEMPERATURE CONTROL
SYSTEM TEST SET MODELS TSPI 6039-13-1, -3
PART NOS. 90420500-000, -001
SEABOARD ELECTRONIC
F33657-73-C-0500
F33657-78-C-0135
BASIC AND ALL CHANGES HAVE BEEN MERGED TO MAKE THIS A COMPLETE PUBLICATION.
THIS PUBLICATION SUPERSEDES OPERATIONAL SUPPLEMENT T.O. 33D2-16-12-1S-1 DATED 15 MAY 1983.
15 JANUARY 1977
CHANGE 5 – 1 SEPTEMBER 1986
Image Pane

The top of the Image pane has several icons that allow you to navigate through an image file list, control how the images are displayed, and perform various tasks. These icons are listed below.

Zoom In: Enlarges the displayed image.

Zoom Out: Reduces the size of the displayed image.

Fit to Width: Fits the image's left and right edges to the display area's width.

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Fit to Height: Fits the image's top and bottom edges to those of the display.

Show/Hide Thumbnails: Shows or hides thumbnails in the Link Builder window Thumbnails pane.

Select: Used to select a specific area within an image file for link discovery.

Rotate Left: Rotates the displayed image counter-clockwise in 90 degree increments

Rotate Right: Rotates the displayed image clockwise in 90 degree increments.

Save Image: Used to save images following rotation.

Undo: Allows you to undo image rotation.

Draw Hyperlink Rectangle: Used to select text for the creation of hyperlinks.

4.4.5 Page List Pane

The Page List pane of the Link Builder window displays discovered hyperlinks. It allows you to organize, modify, and delete hyperlinks.

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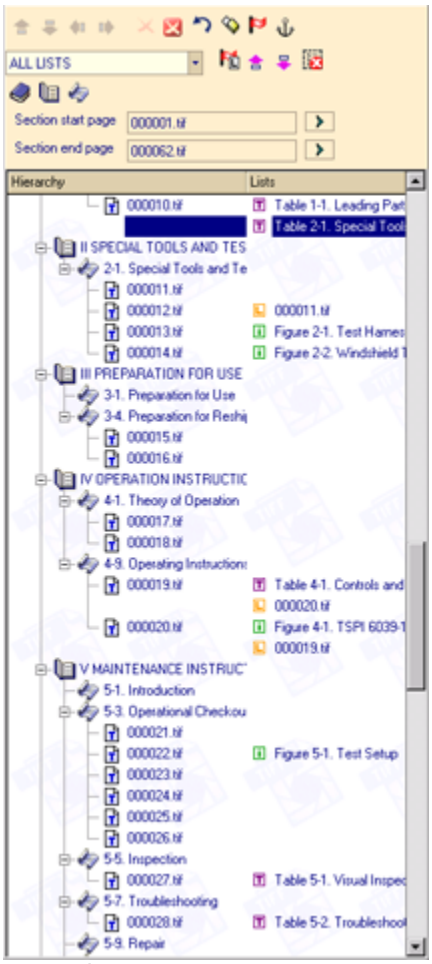

Page List Pane

The job hierarchy, files, and links are displayed in the Page List pane. It is organized into the following columns:

Hierarchy: Displays the job hierarchy and files.

Lists: Presents the links present in the job and the link destination.

The information in each column of a line listing can be modified. This is done by placing the cursor over the text, double-clicking the right mouse button, and making the necessary changes.

The top of the Page List pane has the following icons:

Node Up: Moves a node up one level in the job hierarchy.

Node Down: Moves a node down one level in the job hierarchy.

Decrease Level: Used to decrease the hierarchy level of a node.

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Increase Level: Increases the hierarchy level of a node.

Delete Selected Level: Deletes the selected hierarchy level.

Forced Delete: Used to delete a file or hierarchy level.

Undo: Allows you to undo the last change.

Clear Tree: Used to clear the tree.

Toggle TOC Error State: Used to flag the selected hierarchy level as faulty.

Enable File Node Movement: Unlocks file nodes in the hierarchy so they may be moved.

Toggle List Error State: Allows you to flag a list as faulty.

Move List Item Up: Moves the selected list item up in the hierarchy.

Move List Item Down: Moves the selected list item down in the hierarchy.

Delete List Item: Deletes the selected list item.

H0: Allows you to insert a top level hierarchy.

H1: Used to insert a mid-level hierarchy.

H2: Allows you to insert a bottom level hierarchy.

The Page List pane has two data entry fields:

Section Start Page: Used to enter the starting page of a page range for link discovery or generation.

Section Stop Page: The end page of a page range to be used for link discovery or generation is entered into this field.

To the right of each of the above fields is a Set Section Page icon, which is used to enter

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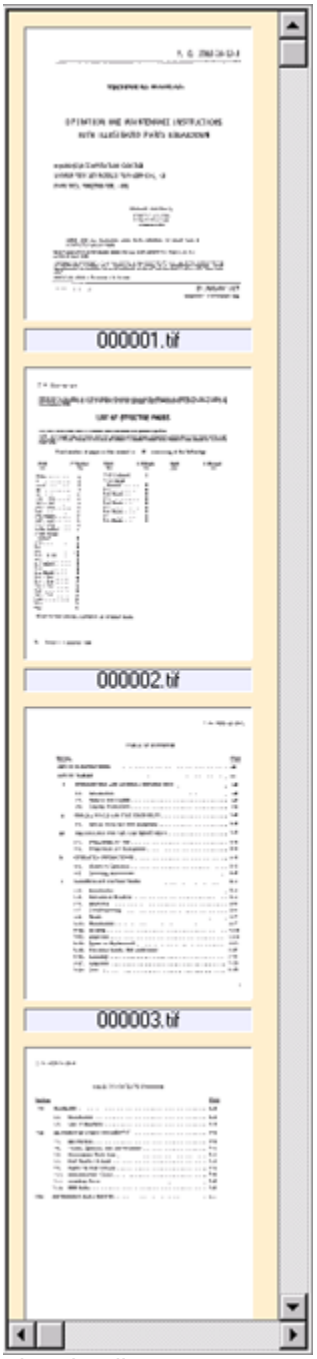
the selections made in the fields. The top of the pane also has the List Type combo box. This combo box is currently not used.

4.4.6 Thumbnail Pane

The Thumbnail pane displays thumbnails of the image files in the currently selected page list.



Thumbnail Pane

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The Thumbnail pane is located on the right side of the Link Builder window. It is displayed or hidden using the Show/Hide Thumbnails icon on the Image Pane toolbar.

4.5 Commands

4.5.1 Hot Key Commands

TMC provides hot key commands for some of the most frequently performed actions. The available commands vary with the window being used.

- **Main Window**
  - Create New Job: Ctrl+N
  - Open Existing Job: Ctrl+O
  - Open Settings: F2
  - Open Image Tree: Ctrl+I
  - Open PDF Document: Ctrl+P
  - Help: F1
- **TOC Builder Window**
  - Create New TOC/List: Ctrl+N
  - Open Existing TOC/List: Ctrl+O
  - Save TOC/List: Ctrl+S
- **Link Builder Window**
  - Open Job: Ctrl+O
  - Help: F1

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Chapter 5

Using TMC

5 Using TMC

5.1 Workflow

5.1.1 Workflow

The workflow for using TMC is shown below. Each portion of the workflow is described in the following sections.

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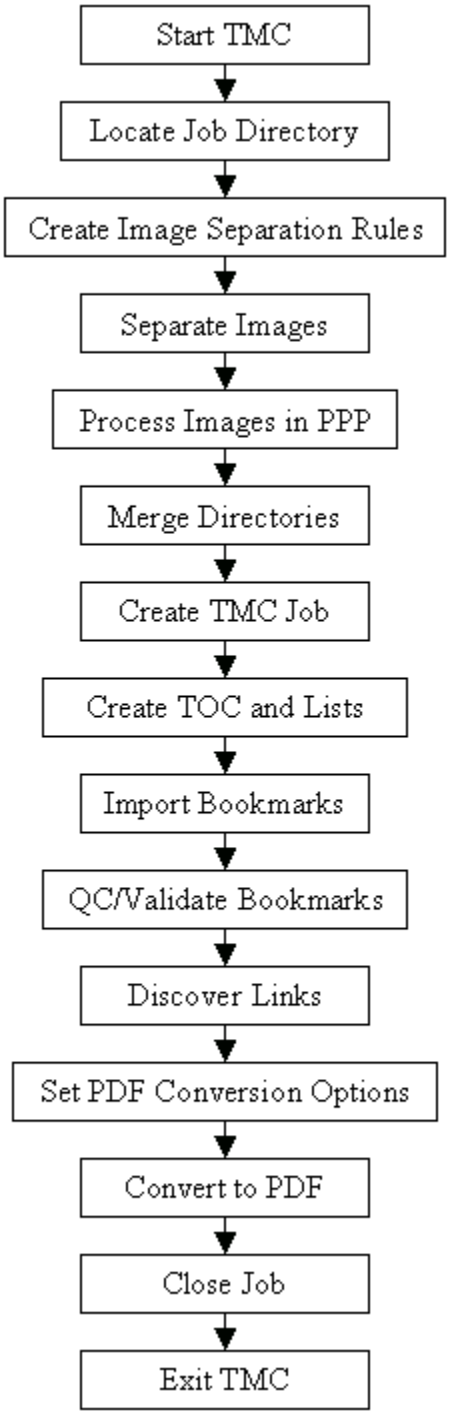

TMC Workflow

Start TMC:
The TMC application is started. For additional information, refer to Starting TMC.

Locate Job Directory:

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This tree is used in browse mode to locate and select the directory containing the image files. For more information, refer to Locating a Job Directory.

Create Image Separation Rules:
The PPP Rules dialog box is used to create rules for separating images based on their dimensions and color depth. In many situations, you can use the default or existing rules and proceed to the next task. For more information, refer to the following help topics:

Creating Image Separation Rules
Modifying Image Separation Rules
Deleting Image Separation Rules

Separate Images:
The images are separated and automatically placed in separate directories according to the criteria defined in the PPP Rules dialog box. Refer to Separating Images for more information.

Process Images in PPP:
PPP is started, an image subdirectory selected, and the images are processed (cleaned, deskewed, etc.). The processed image files are placed in the Good Files List or Exception List. Each file in the Exception List is investigated, corrected, and reprocessed until the list is empty. This is repeated until all of the image files in each subdirectory have been processed. This is described in Processing Images and the PPP documentation.

Merge Directories:
The image directories are merged into a single directory. Note that once you perform a Merge Directories, it cannot be undone. This is described in Merging Directories.

Create TMC Job:
The New Job dialog box is opened and a new TMC job is created. Refer to Creating a New Job for more information.

Create TOC and Lists:
The Tree is used to select the images to be used to generate a table of contents or list of tables, illustrations, or pages. The TOC Builder is started and the Launch TOC Builder dialog box is used to specify how the TOC or list is to be organized. The TOC Builder window is then used to perform OCR on the selected pages, organize the resulting TOC or list, and save the information to a file. For additional information, refer to:

Creating a Table of Contents or List of Illustrations or Figures
Creating a List of Pages

Import Bookmarks:
The files saved in Create TOC and Lists are imported and the bookmarks are incorporated in the Tree. Refer to Importing Bookmarks for more information.

QC/Validate Bookmarks:
The Tree is used to inspect the imported bookmarks and make corrections as needed.

Discover Links:
The Link Builder is started and the hyperlinks within the job are found and displayed. The list of links is examined for errors or missing items. Links are added or edited as needed. The information is saved and automatically incorporated into the hierarchy. Refer to Discovering Links for more information.

Set PDF Conversion Options:

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The Job Settings dialog box is opened and the PDF conversion options are set in the Conversion Settings tab. For more information, refer to Changing PDF Conversion Settings.

Convert to PDF:
The Conversion 2 PDF dialog box is used to set up the batch conversion of image files to PDF. It is also used to execute the conversion of individual or batch jobs. This is described in:

Adding Jobs to PDF Batch Conversion
Deleting Jobs from PDF Batch Conversion
Converting to PDF

Close Job:
After the current job has been completed, it is closed. You can either exit the application or work on a different job. For additional information, refer to Closing a Job.

Exit TMC:
When all of the jobs have been processed, you exit the application. Refer to Exiting TMC for more information.

5.2 Tutorial

5.2.1 Tutorial

The process of converting image files to a linked, searchable PDF file is described in detail in the following tutorial.

- **Preparation**

Create a directory on your hard drive called "tutorial".

Copy a set of test images to the tutorial directory. The images should meet the following criteria:

- Be a continuous series of pages from the same document
- Include a front cover, table of contents, list of illustrations, and body pages
- Be monochrome
- Measure 8.5 x 11 inches
- Use portrait orientation

From the Windows desktop, click the PPP icon.

The PPP window opens. In order for the images to be processed properly during the tutorial, the PPP settings need to be configured. Step through the Page Setup, Margin Setup, Cleanup, and Resize tabs and make the following selections:

- Page Setup Page
  - Page Content Detection: Checked
  - Maximum Subimage Size; Width: 6.5", Height: 9"
  - Page Rotation
  - Turn Image First: Unchecked
  - Detected Image Size
  - Inches: Checked

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- Output Canvas
- Keep Original Image Size: Checked
- Keep Contents Outside Detected Subimage: Unchecked.

- Margin Setup Page

  - Margins: Simple
  - Top: 1"
  - Set Left: 1"
  - Set Right: 1"
  - Check Bottom: 1"
  - Check Horizontal Alignment: To Margin
  - Vertical Alignment: To Margin

- Cleanup Page

  - Despeckle
  - Single Speckle Removal: Checked
  - Edge Cleanup
  - Remove Everything Within: Checked
  - After Deskew: Checked
  - Top: 0.1"
  - Left: 0.1"
  - Right: 0.1"
  - Bottom: 0.1"
  - Punch Hole Removal
    - Remove Punch Holes Within: Checked
    - Top: 0.5"
    - Left: 0.5"
    - Right: 0.5"
    - Bottom: 0.5"
  - Report In Exception List If Subimage is Less Than: Unchecked
  - Deskew: Checked
  - Skew Detection Options
    - Fast Skew Detection: Checked
  - Skew Constraints
    - Min. Skew: 0.005
    - Max. Skew: 3

- Resize Page

  - Resize Subimage: Unchecked

Close the PPP window.
In the Job Changed dialog box, click No.

Start TMC.

- From the Windows desktop, click the ETMC icon.

- Locate Job Directory

- The TMC Main window opens.

- If the Tree is not in Browse mode, click Browse Mode on the toolbar.

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- If the Confirm dialog box appears, click Yes.
- Use the top portion of the Tree to locate and select the job directory (\tutorial).

Create Image Separation Rules

- From the toolbar, click Setup Rules .
- The PPP Rules dialog box appears. This dialog box is used to add, modify, and delete rules for separating images based on their size and color depth. The TMC software comes from the factory with two default PPP rules (A and Foldout).
- Accept the current settings by clicking OK.

Separate Images

- From the toolbar, click Separate Images .
- In the Confirm dialog box, click Yes.
- In the Done dialog box, click OK.

Process Images in PPP

- From the toolbar, select Run PPP .
- The PPP window opens.
- From the File menu, select New Job.
- Go to the Job Setup tab.
- Click Current Folder to the right of the Look In field.
- The Browse for Folder dialog box appears.
- When images are separated, they are placed in separate subdirectories according to their size and color depth. Since all of the images used in this tutorial are 8.5 x 11-inch monochrome, they met the criteria of image separation rule A and were placed in an image subdirectory of the same name.
- In the Browse for Folder dialog box, locate and select the \tutorial\A subdirectory.

Note:
Each image subdirectory is named after its corresponding image separation rule. If none of the images meet a rule's size and color depth criteria, a subdirectory for the rule will not be created.

- Click OK.
- Press the Shift key while you use the mouse to select all of the images in the Look In pane for processing.

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- Click Add.
- From the PPP window Job menu, select Process Images.
- The Save As dialog box appears. It is used to specify a name and location for the PPP job. Use the default name A.JOB.
- Click Save.
- The images are processed.
- The Report of Processing dialog box opens.
- Click OK.
- For each image in the Exception List window, note the description of the problem, double-click on the image, correct the problem, and click Reprocess Now.
- Repeat this process until all of the files have been cleared from the exception list.
- Close the Exception List window.
- Close the Good Files List window.
- For jobs that contain images of different sizes and color depth, multiple image subdirectories would be created.
- The images in each subdirectory should be processed using the previous steps. At this point all of the images for the current job have been processed.
- In the PPP File menu, select Exit.

Merge Directories

- Use the top portion of the Tree to locate and select the current job directory (\tutorial).
- From the toolbar, click Merge Directories .
- The Final Merge Job dialog box appears. Click Yes.
- The Done dialog box appears. Click OK.
- Create TMC Job
- Use the top portion of the Tree to locate and select the PPP subdirectory within the current job directory (\tutorial\PPP).
- From the Job menu, select New Job.
- The New Job dialog box appears.
- Verify that the following entries are present in the Job Settings tab:
    - Directory for Image Files: <drive>:\tutorial\PPP
    - Directory for PDF Files:<drive>:\tutorial\PPP\Output

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- Click O.K.

Create TOC and Lists

- Step through the images in the Tree and locate the first and last pages of the table of contents.
- Simultaneously press the Shift key and use the left mouse button to select the first and last pages to be used to create the TOC.
- The page range is highlighted.
- From the toolbar, click TOC Builder .
- The Launch TOC Builder dialog box appears.
- Accept the default settings by clicking OK.
- The TOC Builder window opens.
- Press the left mouse button and enclose the table of contents on displayed image within the box.
- OCR is performed and a hierarchy is displayed in the TOC pane.
- Add, modify, and delete the TOC entries as needed.
- To add, move, or delete an entry, highlight it and use the icons at the top of the TOC pane.
- To modify an entry, place the cursor over it, double-click the left mouse button, and make the necessary changes.
- Click Next Page and repeat steps 44 and 45 for each table of contents page.
- Click Auto Page Match .
- From the File menu, select Save.
- In the Save As dialog box, use the file name provided (TableOfContents.tcf) and click Save.
- From the File menu, select Exit.
- Step through the images in the Tree and locate the first and last pages of the list of illustrations.
- Simultaneously press the Shift key and use the left mouse button to select the first and last pages to be used to create the list.
- The page range is highlighted.
- From the toolbar, click TOC Builder .

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- The Launch TOC Builder dialog box appears.
- Accept the default settings by clicking OK.
- The TOC Builder window opens.
- Press the left mouse button and enclose the list of illustrations on the displayed image within the box.
- OCR is performed and a hierarchy is displayed in the TOC pane.
- From the Current Item Type combo box (in the upper left portion of the window) select Illustrations.
- The TOC Builder dialog box appears.
- Click Yes.
- Add, modify, and delete the list entries as needed.
- To add, move, or delete an entry, highlight it and use the icons at the top of the TOC pane.
- To modify an entry, place the cursor over it, double-click the left mouse button, and make the necessary changes.
- Click Next Page and repeat the previous steps for each list of illustrations page.
- Click Auto Page Match .
- From the File menu, select Save.
- In the Save As dialog box, rename the list of illustrations file LOI.tcf and click Save.
- From the File menu, select Exit.

Import Bookmarks

- Bookmarks consist of table of contents, list of figures, list of illustrations, and similar information.
- The first bookmarks to be imported are from the TOC file.
- From the toolbar, click Insert Bookmarks from File .
- In the Open dialog box, navigate to \tutorial\PPP\TocImg_01 and select the TableOfContents.tcf file.
- Click Open.
- In the Insert TOC dialog box, click OK.
- The TOC bookmarks are added to the document hierarchy.
- Next, the bookmarks from the list of illustrations file are imported.

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- From the toolbar, click Insert Bookmarks from File .
- In the Open dialog box, navigate to \tutorial\PPP\TocImg_02 and select the LOI.tcf file.
- Click Open.
- In the Insert TOC dialog box, click OK.
- The list of figures bookmarks are added to the document hierarchy.

QC/Validate Bookmarks

- Use the Tree to examine the imported bookmarks.
- If the bookmarks look correct, proceed to the next step. Otherwise, repeat steps to import bookmarks.

Discover Links

- From the toolbar, click Run Link Builder .
- In the Confirm dialog box, click Yes.
- The Link Builder window opens.
- From the Job menu, select Open Job.
- In the Open dialog box, navigate to \tutorial\PPP and select the tree.org file.
- Click Open.
- At this point in the process, it is sometimes necessary to specify the list type, section start page, and section stop page at the top of the Page List pane.
- Accept the defaults and proceed to the next step.
- From the toolbar, click Discover Links .
- In the Link Discovery dialog box, click Process.
- When the link discovery process is complete, click Close
- Examine the links listed in the Page List pane.
- Add, modify, and delete links as needed.
- To add, move, or delete a link, highlight the link and use the icons at the top of the Page List pane. To modify a link, place the cursor over the link entry, double-click the left mouse button, and make the necessary changes.
- From the Job menu, select Save Job.
- In the Confirm dialog box, click Yes.

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- From the Job menu, select Exit.
- In the Confirm dialog box, click Yes.

Set PDF Conversion Options

- From the toolbar, click Settings .
- In the dialog box, click the Conversion Settings tab. This tab allows you to select various options for the conversion to PDF.
- Accept the current settings by clicking OK.

Convert to PDF

- From the toolbar, click Convert to PDF .
- In the Conversion 2 PDF dialog box, click Process.
- Wait for the conversion to finish. Then click Close.
- Wait for the PDF Viewer to open and display the document.
- Verify that the document was converted properly.

Close Job

- From the Job menu, select Close Job.
- In the Confirm dialog box, click Yes.

Exit TMC

- From the toolbar, click Exit .

5.3 Tasks

5.3.1 Adding Jobs to PDF Batch Conversion

To add a job to the PDF batch conversion list do one of the following:

- From the Organize menu, select Convert to PDF.
- From the toolbar, click Convert to PDF .
- In the Conversion 2 PDF dialog box, click Add.
- In the Open dialog box, locate and select the job.
- Click Open.

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- In the Conversion 2 PDF dialog box, click Close.

5.3.2 Adding Text Strings to Tables of Content, Lists or Indices

To add a text string to a table of contents, list of illustrations, list of figures, list of tables, list of pages or index. In the TOC Builder window, do one of the following:

- To add a text string to a single list item, highlight the item.
- To add the same text string to all list items, go to the next step.
- From the Edit menu select Add String.
- In the Add Prefix String dialog box, make the following selections as required:
  - String to Add
  - Add to All
  - Add Section Number
- Click OK.

5.3.3 Changing Bookmark Creation Settings

To change the bookmark creation settings for an existing job, do one of the following:

- From the Job menu, select Settings.
- Press F2.
- From the toolbar, click Settings .
- In the Job Settings dialog box, click the Bookmark Creation Options tab and change the following as required:
  - Maximum Level Depth
  - Write Page List
- Click OK.

5.3.4 Changing Job Settings

To change the job settings for an existing job, do one of the following:

- From the Job menu, select Settings.
- Press F2.
- From the toolbar, click Settings .
- In the Job Settings dialog box, change the following as needed:

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- Mode
- Image Formats
- Directory for Image
- Files
- Directory for PDF Files

- Click OK.

5.3.5 Changing PDF Conversion Settings

To change the PDF conversion settings, do one of the following:

- From the Job menu, select Settings.

- Press F2.

- From the toolbar, click Settings .

- In the Job Settings dialog box, click the Conversion Settings tab and change the following as required:

    - Downscale
    - Downscale
    - Resolution X
    - Downscale
    - Resolution Y
    - PDF Type
    - Page View
    - Create Tags
    - Create Outline Tree
    - Show Outline
    - Create Temporary PDF for Network Job
    - File Splitting Level
    - Optimize for Web
    - Create PDF Links

- Click OK.

5.3.6 Changing Preferences

Note: The ETMC software comes from the factory with the paths to PPP, TMC Capture, TOC Builder, and Link Builder already specified. In most cases, it is unnecessary for the information in these fields to be changed.

To change preference settings:

- From the Job menu, select Preferences.

- In the Preferences dialog box, specify a path for PPP by doing one of the following:

    - Enter the path to where PPP is installed in the PPP field.

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- Click Open Folder to the right of the PPP field.
- In the Open dialog box, locate and select PPP and click Open.

- To specify the location for TMC Capture, do one of the following:
  - Enter the path to where TMC Capture is installed in the TMC Capture field.
  - Click Open Folder to the right of the TMC Capture field.
  - In the Open dialog box, locate and select TMC Capture and click Open.
- To specify a path for TOC Builder, do one of the following:
  - Enter the path to where TOC Builder is installed in the TOC Builder field.
  - Click Open Folder to the right of the TOC Builder field.
  - In the Open dialog box, locate and select TOC Builder and click Open.
- To specify a path for Link Builder, do one of the following:
  - Enter the path to where Link Builder is installed in the Link Builder field.
  - Click Open Folder to the right of the Link Builder field.
  - In the Open dialog box, locate and select Link Builder and click Open.
- In the Preferences dialog box, Click OK.

5.3.7 Closing a Job

To close the current TMC job:

- From the Job menu, select Close Job.

5.3.8 Converting to PDF

To convert image files into a PDF document, do one of the following:

- From the Organize menu, select Convert to PDF.
- From the toolbar, click Convert to PDF .
- In the Conversion 2 PDF dialog box, click Process.

- Wait for the conversion to finish, then click Close.
- Wait for the PDF Viewer to open and display the document.
- Verify that the document was converted properly.

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5.3.9 Creating a List of Pages

To create a list of pages, in the Main window, do one of the following:

- From the Organize menu, select Run Elan TOC Builder.
- From the toolbar, click Run Elan TOC Builder .

- In the Launch TOC Builder dialog box, change the following as needed:
  - Options
  - New TOC Options
  - TCF File
- Click OK.
- In the TOC Builder dialog box, select Pages from the Current Item Type combo box.
- From the Create menu, select Build Page List.
- In the Build Pages dialog box, enter the following information:
  - Page Prefix
  - Begin Page
  - End Page
- Click Create.
- In the TOC Builder window, add, modify, and delete the TOC or list entries as needed.
- To add, move, or delete an entry, highlight it and use the icons at the top of the TOC pane. To modify an entry, place the cursor over it, double-click the left mouse button, and make the necessary changes.
- Click Auto Page Match .
- From the File menu, select Save.
- In the Save As dialog box, name the file LOP.tcf and select a location.
- Click Save.
- From the File menu, select Exit.

5.3.10 Creating a New Job

To create a new TMC job:

- Use the top portion of the Tree to locate and select the PPP subdirectory within the current

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job.

Do one of the following:

- From the Job menu, select New Job.
- Press Ctrl+N.
- From the toolbar, click Settings .

The New Job dialog box appears. In most cases you can use the default settings and proceed to step 6. Otherwise, change the following Job Settings as needed:

- Mode
- Image Formats
- Directory for Image Files
- Directory for PDF Files

Click the Conversion Settings tab and change the following as needed:

- Downscale
- Downscale Resolution X
- Downscale Resolution Y
- PDF Type
- Page View
- Create Tags
- Create Outline Tree
- Show Outline
- Create Temporary PDF for Network Job
- File Splitting Level
- Optimize for Web
- Create PDF Links

Click the Bookmark Creation Options tab and change the following as required:

- Maximum Level Depth
- Write Page List

- Click OK.

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5.3.11 Creating a Table of Contents or List of Tables or Illustrations

To create a table of contents or list of tables or illustrations:

- In the Main window Tree, select the pages to be included in the table of contents or list of tables or illustrations. Then do one of the following:
  - From the Organize menu, select Run Elan TOC Builder.
  - From the toolbar, click Run Elan TOC Builder .
- In the Launch TOC Builder dialog box, change the following as needed:
  - Options
  - New TOC Options
  - TCF File
- Click OK.
- If required, click Auto Deskew in the TOC Builder window.
- For each page to be included in the table of contents or list, press the left mouse button and enclose the desired text within the box.
- OCR is performed and the hierarchy is displayed in the TOC Pane.
- To create a list of tables or illustrations, make the appropriate selection (Tables or Illustrations) from the Current Item Type combo box.
- If the TOC Builder dialog box appears, click Yes.
- Add, modify, and delete the TOC or list entries as needed.
  - To add, move, or delete an entry, highlight it and use the icons at the top of the TOC pane.
  - To modify an entry, place the cursor over it, double-click the left mouse button, and make the necessary changes.
- Click Auto Page Match .
- From the File menu, select Save.
- In the Save As dialog box, select a file name and location for the TOC or list file. It is recommended that the various types of files be named as follows:
  - Table of Contents:TableOfContents.tcf
  - List of Tables:LOT.tcf
  - List of Illustrations:LOI.tcf

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- Click Save.
- From the File menu, select Exit.

5.3.12 Creating Image Separation Rules

To create an image separation rule, do one of the following:

- From the Images menu, select Setup Rules.
- From the toolbar, click Setup Rules .

- In the PPP Rules dialog box, click Add.
- In the Rule Setup dialog box:, make the following selections:
  - Output Directory
  - Equal To, Between, Greater Than or Less Than.
  - Width
  - Height
  - Color Depth
- Click OK.
- In the PPP Rules dialog box, click OK.

5.3.13 Deleting Image Separation Rules

To delete an image separation rule, do one of the following:

- From the Images menu, select Setup Rules.
- From the toolbar, click Setup Rules .

- In the PPP Rules dialog box, highlight the rule.
- Click Delete.
- In the Confirm dialog box, click Yes.
- In the PPP Rules dialog box, click OK.

5.3.14 Deleting Jobs from PDF Batch Conversion

To delete a job from the PDF batch conversion list, do one of the following:

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- From the Organize menu, select Convert to PDF.
- From the toolbar, click Convert to PDF .

- In the Conversion 2 PDF dialog box, highlight the job.
- Click Delete.
- Click Close.

5.3.15 Discovering Links

- To discover links, in the Main window, do one of the following:
  - From the Organize menu, select Run Link Builder.
  - Press Ctrl+O.
  - From the toolbar, click Run Link Builder .
- In the Confirm dialog box, click Yes.
- In the Link Builder dialog box, do one of the following:
- From the Job menu, select Open Job.
- From the toolbar, click Open Job .
- In the Open dialog box, locate and select the tree.org file for the current job.
- Click Open.

If the links for the job have previously been discovered, skip the next step. Otherwise, make the following selections as required in the Link Builder window:

- List Type
- Section Start Page
- Section Stop Page
- From the toolbar, click Discover Links .
- In the Confirm dialog box, click Yes.

After the application has finished searching for links, examine the links listed in the Page List pane.

- Add, modify, and delete links as needed.
  - To add, move, or delete a link, highlight the link and use the icons at the top of the Page List pane.

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- To modify a link, place the cursor over the link entry, double-click the left mouse button, and make the necessary changes.

- From the Job menu, select Save Job.
- In the Confirm dialog box, click Yes.
- In the Link Builder window, do one of the following:
  - From the Jobs menu, select Exit.
  - From the toolbar, click Exit .

5.3.16 Exiting TMC

There are two ways to exit TMC:

- From the Job menu, select Exit.
- From the toolbar, click Exit .

5.3.17 Exporting Image Separation Rules

To export the current image separation rules to a file, do one of the following:

- From the Images menu, select Setup Rules.
- From the toolbar, click Setup Rules .

- Click Save.
- In the Save As dialog box, select a name and location for the file.
- Click Save.
- In the PPP Rules dialog box, click OK.

5.3.18 Importing Bookmarks

To import bookmarks from a table of contents or list of tables, illustrations, or pages file, do one of the following:

- From the Organize menu, select Insert Bookmarks from File.
- From the toolbar, click Insert Bookmarks from File .

- In the Open dialog box, locate and select the file. Unless otherwise specified, this file is saved by default under \<Job Name>\PPP\TocImg.
- Click Open.

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- In the Insert TOC dialog box, click OK.

5.3.19 Importing Image Separation Rules

To import image separation rules from another job, do one of the following:

- From the Images menu, select Setup Rules.
- From the toolbar, click Setup Rules .

- Click Load.
- In the Open dialog box, locate and select the file.
- Click Open.
- In the PPP Rules dialog box, click OK.

5.3.20 Locating a Job Directory

To locate and select a job directory, do the following:

- If the Tree is not in Browse mode, click Browse Mode from the toolbar.
- If the Confirm dialog box appears, click Yes.
- Use the top portion of the Tree to locate and select the job directory.

5.3.21 Merging Directories

Note: Directories cannot be separated after they have been merged.

To merge directories, use the top portion of the Tree to locate and select the current job directory, then do one of the following:

- From the Images menu, select, Merge Directories.
- From the toolbar, click Merge Directories .

- In the Final Merge Job dialog box, click Yes.
- In the Done dialog box, click OK.

5.3.22 Merging Images

To merge images, do one of the following:

- From the Images menu, select Merge Images.

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- From the toolbar, click Merge Images .

- In the Confirm window, click Yes.
- In the dialog box, click OK.

5.3.23 Modifying Image Separation Rules

To modify an image separation rule, do one of the following:

- From the Images menu, select Setup Rules.
- From the toolbar, click Setup Rules .

- In the PPP Rules dialog box, highlight the rule.
- Click Edit.
- In the Rule Setup dialog box, change the following as needed:
  - Output Directory
  - Equal To, Between, Greater Than or Less Than
  - Width
  - Height
  - Color Depth
- Click OK.
- In the PPP Rules dialog box, click OK.

5.3.24 Opening an Existing Job

To open an existing job, do one of the following:

- From the Job menu, select Open Job.
- Press Ctrl+O.

- In the Open dialog box, locate and select the job.
- Click Open.

5.3.25 Opening an Image Tree

There are three ways to open an image tree:

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- From the Organize menu, select Image Tree.
- Press Ctrl+I.
- From the toolbar, click Image Tree .

5.3.26 Opening a PDF Document

There are three ways to open a PDF document:

- From the Organize menu, select PDF Document.
- Press Ctrl+P.
- From the toolbar, click PDF Document .

5.3.27 Processing Images

To process images in PPP, do one of the following:

- From the Images menu, select Run PPP.
- From the toolbar, click Run PPP .

- The PPP window opens.
- From the File menu, select New Job.
- Go to the Job Setup tab.
- Click the Current Folder to the right of the Look In field.
- The Browse dialog box appears.
- Locate and select the first image subdirectory to be processed.
- Click OK.
- Press the Shift key while you use the mouse to select the images to be processed in the Look In pane.
- Click the Add button.
- Step through the Page Setup, Margin Setup, Cleanup, and Resize tabs.
- Verify the correct settings have been selected.
- From the Job menu, select Process Images.
- In the Save As dialog box, specify a name and location for the PPP job.
- Click Save. The images are processed.

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- The Report of Processing dialog box opens.
    - Click OK.
- For each image in the Exception List window, double-click on the image, correct the problem, and click Reprocess Now. Repeat this process until all of the files have been cleared from the exception list.
- Close the Exception List window.
- Close the Good Files List window.
- Repeat the previous steps for each job image subdirectory.
- In the File menu, select Exit.

For further information on processing images in PPP, refer to the PPP documentation.

5.3.28 Selecting Browse Viewing Mode

To change from Image Tree to Browse mode:

- From the toolbar, click Browse Mode .
- In the Confirm dialog box, click Yes.

5.3.29 Selecting Tree Viewing Mode

To change from Browse to Image Tree mode do one of the following:

- Press Ctrl+I.
- From the toolbar, click Image Tree .

5.3.30 Separating Images

To separate images, do one of the following:

- From the Images menu, select Separate Images.
- From the toolbar, click Separate Images .

- In the Confirm dialog box, click Yes.
- In the Done dialog box, click OK.

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5.3.31 Showing and Hiding Thumbnails

To show or hide thumbnail images, do the following:

- From the Image Viewer toolbar, click Show/Hide Thumbnails .

5.3.32 Starting TMC

There are two ways to start TMC:

- From the Start menu, select Programs followed by Elan Technical Manual Converter.
- From the Windows desktop, click the ETmc icon.

5.3.33 Starting TMC Capture

There are two ways to start TMC Capture:

- From the Organize menu, select Run TMC Capture.
- From the toolbar, click Run TMC Capture .

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Chapter 6

Troubleshooting

6 Troubleshooting

6.1 Technical Support

Worldwide Web

Visit our Web site at http://www.elan-gmk.com for the latest product information, case studies and references.

E-Mail

Send your questions to support@elan-gmk.com

Telephone

Call (805) 577-0288 Monday through Friday between 9:00 A.M. to 5:00 P.M. Pacific Time.

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Chapter 7

Reference

7 Reference

7.1 Supported File Formats

TMC can open and organize the following file formats:

- 301 (301 Brook Trout, black and white)
- ATT (AT&T CCITT Group 4)
- BMP (Windows and OS/2 bitmap, 1, 4, 8, 16, 24 and 32-bit, uncompressed and RLE-8 compressed)
- BXS (1, 4, 16, 24 and 32-bit)
- CAL (CALS CCITT Group 4 Type I only)
- CLP (Windows Clipboard Bitmap Format, 1, 4, 8, 16, 24, 32-bit, uncompressed, RLE-8 compressed, CF_DIB type only)
- DCM (DICOM Medical Imaging Standard, 1, 8, 10, 11, 12, 15, 16, 24 and 32-bit)
- DCX (ZSoft Paintbrush Multipage PCX, versions 0 through 5; 1, 4, 8 and 24-bit)
- DIB (Windows Device Independent Bitmap, 1, 4, 8, 16,24, 32-bit)
- IMT (IMNET Bitonal Image Format)
- JEDMICS (also known as EDMICS or C4, black and white)
- JPEG (Joint Photographic Expert Group, 8 and 24-bit, grayscale and color, baseline and extended DCT, types SOF0 and SOF1, all types of JIF/JPG)
- KFX (Kofax Scanning Hardware Image File, CCITT Group 4)
- MAC (Mac Paint Image Formats, black and white)
- MSP (Microsoft Paint, black and white)
- NCR (NCR Bitonal Image Format)
- PCD (Kodak Photo CD, Page 0, Page 1 and Page 2 only)
- PCX (ZSoft Paintbrush, versions 0 through 5; 1, 4, 8 and 24-bit)
- PDA (Calera PDA, CCITT Group 3 and Group 4)
- PNG (Portable Network Graphics, 1, 4, 8, 16, 24, 32-bit)
- RGB/CMY/CMYK/YCbCr/L*a*b/Grayscale/Medical/Paletted, 1-8, 12-16, 24 and 32-bit, Group 3, Group 3 2D, Group 4, Huffman, PackedBits, Uncompressed, Intel/ Motorola, no LZW and no tiled formats)
- RLE (Windows RLE file, 4 and 8-bit)

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- SCT (Scitex CT Images, RGB, Grayscale and CMYK)
- TGA (Truevision Targa File, 8, 16, 24 and 32-bit, compressed and uncompressed)
- TIFF (Tagged Image File Format)
- XBM (IBM's X Windows format, black and white)
- XPM (Groupe Bull's X Windows format, color)
- XWD (X Consortium's X Windows format, 1, 4, 8, 16, 24 and 32-bit)

The software can create files of the following types:

- PDF (Portable Document Format, CCITT Group 4 and Deflate compressed)

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